1988 HELICOPTER ANNUAL

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The 1988 Helicopter Annual Publisher's Note

During its five-year publishing history, the HAI Helicopter Annual has established itself as the single-source reference directory for the helicopter industry.

The Annual has received two prestigious commendations from the American Society of Association Executives (ASAE). The premier edition received a Gold Circle trophy as best Membership Directory and Buyers' Guide. The 1987 Annual was awarded a Certificate of Merit by ASAE.

The 1988 Helicopter Annual has broken new ground in advertising and production. The Annual contains messages from 58 advertisers (an all-time record), and it was designed and typeset in-house using HAI's Desk Top Publishing system.

Each year the Annual is distributed to: every registrant at the HAI Annual Meeting; the aviation trade press; the full HAI membership; the FAA, DOT, and NTSB; each member of Congress and the U.S. Senate; and the aviation/travel departments of the Fortune 300, among others.

As publishers, we salute the dedicated team which created the 1988 Helicopter Annual.

We ask our readers to write or call with their comments and suggestions for improvements.

Sincerely,

Stephen R. Sullivan
HAI Chairman

Frank L. Jensen, Jr.
HAI President

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Frank L. Jensen, Jr.

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ISSN 0639-5728

* HAI's entire membership serves as an Advisory Council for the Helicopter Annual, particularly the Board of Directors and committee chairmen. Please see their listings on page 237 and 241 respectively.

January 1988 6th edition

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Extend your company's executive edge.

An executive asks a pilot: *Which helicopter for our company?* Often, the answer is *LongRanger III* … with a long list of reasons why.

First, the seven-place 206L offers the absolute smoothest ride of any helicopter in this class — important to pilots and passengers both. Pilots are rested. And passengers enjoy a comfortable, spacious interior with real stretch-out room. At up to 150 miles per hour, you'll fly *over* the traffic jams. You'll save time. And get more work done on the way.

Here, too, is the helicopter with the lowest operating costs in its class. And pilots enjoy a friendly, easy-to-fly machine that's IFR-capable. With a panel that can be customized to meet individual needs.

Most important of all, here is a *proven* helicopter. Rugged, dependable. At work around the world. Built by the world's most experienced helicopter manufacturer.

One more important point: The LongRanger is backed by the best service and support, worldwide.

Which helicopter? It's no surprise when a pilot answers LongRanger III.

For more information, call or write Jim Hamilton, Vice President, Commercial Marketing, Bell Helicopter Textron Inc., Dept 898, P.O. Box 482, Ft. Worth, Texas 76101, (817) 280-8200.

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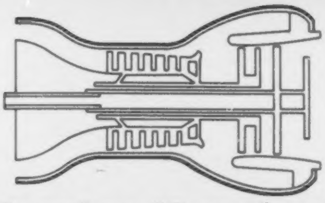
Sometimes man can be moved by a simple idea.

Curved vanes on a spindle driven by air. In the hands of a child, a toy. Aboard thousands of aircraft, helicopters, tanks and marine vehicles, a propulsion system that has revolutionized transportation.

We, too, are driven forward by a simple concept: to produce the world's highest quality turbines, on time and up to spec. What's more, to back these products with a support network that leads the industry.



The products of Textron Lycoming innovation and technology read like a "Who's Who" in turbine propulsion. The clean, quiet, fuel-efficient ALF 502 Turbofan. The workhorse T53 and T55 Series Turboshafts. The versatile TF Series Marine/Industrial Turbines. And engines on the drawing board today, that will meet the propulsion challenges of tomorrow.

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DEDICATION

The sixth edition of the Helicopter Annual is dedicated to a lifesaving machine. The helicopter. Since 1944, the helicopter has saved well over one million lives and enhanced the quality of life of our modern society. HAI salutes the machine, the operator, the manufacturer, the maintenance technician, and the product and service suppliers that make up the civil helicopter industry. We're proud to represent them and welcome their support.

**Helicopter
Association
International**

** All HAI members are encouraged to use HAI's widely recognized and highly respected logo on their letterhead, advertisements, and news releases. Proclaim your HAI membership proudly. Remember: HAI represents substance not just glitter ... our strength is in our unity.*

UNDERSTANDING HELICOPTERS
Helicopter capabilities have grown to the point where every flight department manager must appreciate the benefit of this unique aircraft.
Straight Up: How It Developed
How First Timers Learn to Use Their Helicopters
Icing: The Final Barrier
B/CA HELI
Scheduling the Corporate Helicopter
Flight Training: The Subtle Evolution
HELICOPTER
HELICOPTER
Icing: The Final Barrier
Overcoming Community Resistance
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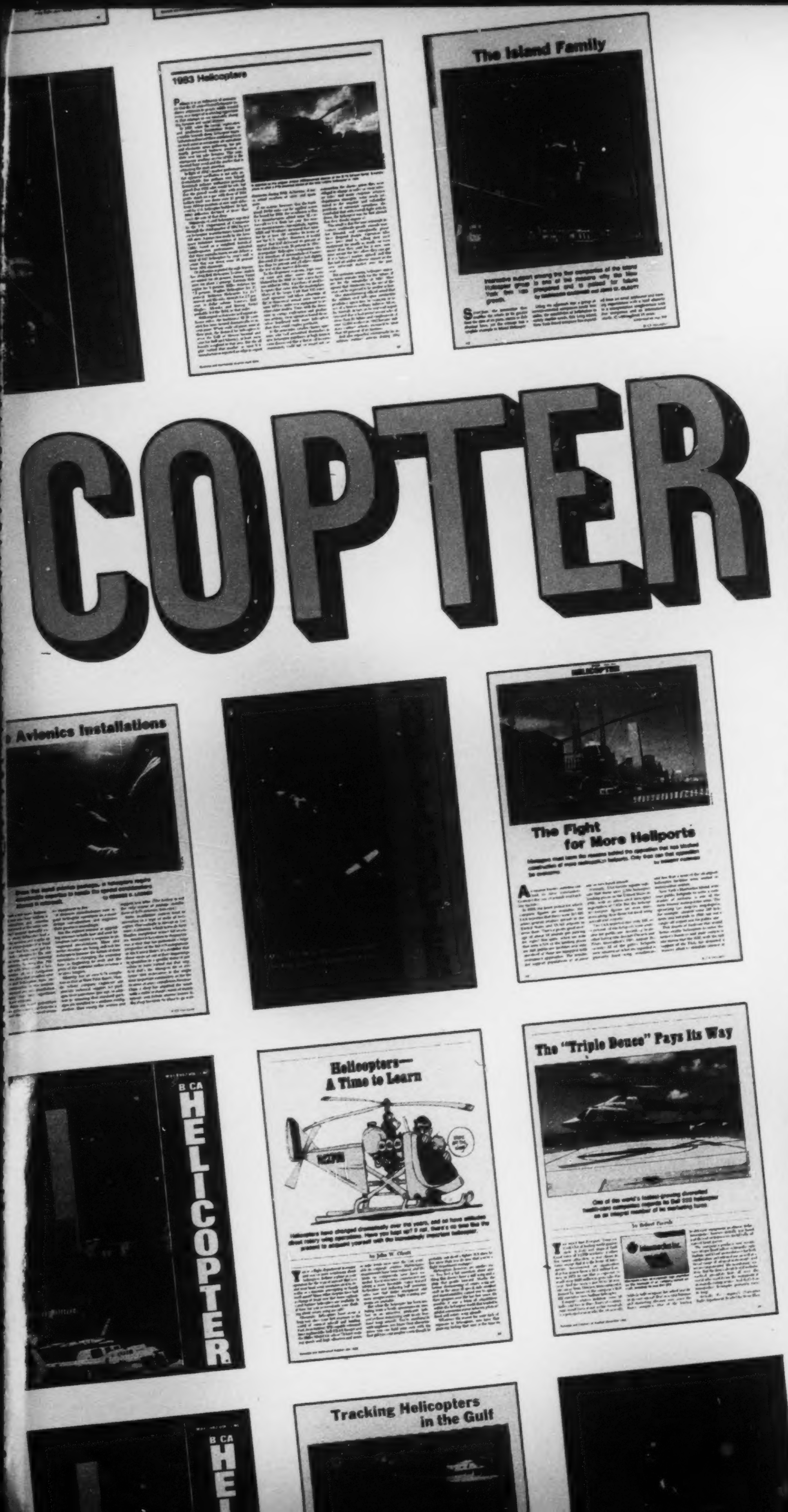
Gross Utilization: Has Its Time Come?
A Good Idea Made Better
Inside Avionics Installations


1983 Helicopters
The Island Family
COPTER
Avionics Installations
The Fight for More Heliports
B/CA
HELICOPTER
Helicopters—A Time to Learn
The "Triple Deuce" Pays Its Way
Tracking Helicopters in the Gulf

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B/CA HELICOPTER, the special "magazine-within-a-magazine" that's been with you every step of the way. Answering your need for more and more information about management, hardware and piloting technique.

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Bound into every other issue of Business and Commercial Aviation, B/CA HELICOPTER offers you exclusive features that can't be found anywhere else in the industry.

So be sure to read B/CA HELICOPTER, the "magazine-within-a-magazine" that gives you all the insights into the world of helicopters you could possibly want. And conceivably need.

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Key Helicopter Statistics

The most requested statistical data about helicopters.

HAI continues to be a focal point for requests for statistical information of all kinds on our industry. We are continuing our efforts to provide better statistics on the industry, both nationally and internationally. We have carefully reviewed the statistics and they are the most accurate available. We will continue to work with Air Track, the National Transportation Safety Board, the FAA and other government agencies to provide consistently accurate data on the helicopter industry.

U.S. helicopter fleet by model and series

(as of Oct. 1987)

The following section breaks out the US fleet by manufacturer, model and series.
Source: Air Track, Hilliard, FL.

Manufacturer	Model/ Series	Type of engine	No. of engines	No. of aircraft
Aerospatiale	SA 315B	Turbine	1	68
	SA 316/ 318/319	Turbine	1	76
	SA 330	Turbine	1	13
	SA 332	Turbine	2	5
	SA 341	Turbine	1	39
	SA 350	Turbine	1	289
	SA 355(All)	Turbine	2	170
	SA 360	Turbine	1	10
	SA 365	Turbine	2	16
		Total Aerospatiale		**686**
Agusta	A 109	Turbine	2	86
		Total Agusta		**86**
Bell	47/13 (All)	Recip	1	1,496
	204/ /205/UH1	Turbine	1	267
	206A/B	Turbine	1	1,648
	206L (All)	Turbine	1	654
	212	Turbine	2	145
	214	Turbine	1	34
	222 (All)	Turbine	2	111
	301	Turbine	2	2
	412	Turbine	2	60
		Total Bell		**4,417**
Boeing	107	Turbine	2	16
	CH 47	Turbine	2	5
	234	Turbine	2	5
	360	Turbine	2	1
	HUP	Recip	1	3
	PV18	Recip	1	1
	H21	Recip	1	12
	42A	Recip	1	1
		Total Boeing Vertol		**44**
Enstrom	F-28	Recip	1	359
	280 (All)	Recip	1	159
		Total Enstrom		**518**
Hiller	UH-12	Turbine	1	19
	UH-12	Recip	1	748
		Total Hiller		**767**
Hynes	H2	Recip	1	155
	H5	Recip	1	15
		Total Hynes		**170**
MBB	BO 105	Turbine	2	143
	BK 117	Turbine	2	63
		Total MBB		**206**
McDonnell Douglas				
	369/500 (All)	Turbine	1	746
		Total McDonnell Douglas		**746**
Robinson	R-22 (All)	Recip	1	365
		Total Robinson		**365**
Schweizer	269 (All)	Recip	1	779
		Total Schweizer		**779**
Sikorsky	S-56/H37	Recip	2	47
	S-51	Recip	1	9
	S-52	Recip	1	16
	S-55	Recip	1	131
	S-58/H34	Recip	1	198
	S-61/H-3	Turbine	2	33
	S-62	Turbine	1	6
	S-64	Turbine	2	7
	S-70	Turbine	2	1
	S-72	Turbine	2	2
	S-76	Turbine	2	183
		Total Sikorsky		**633**
Westland	WG-30	Turbine	2	9
		Total Westland		**9**

U.S. Civil Helicopter Production

Year	Domestic	Export	Total
1970	150	332	482
1971	171	298	469
1972	319	256	575
1973	342	428	770
1974	433	395	828
1975	528	336	864
1976	442	315	757
1977	527	321	848
1978	536	368	904
1979	570	459	1,029
1980	841	525	1,366
1981	619	453	1,072
1982	333	254	587
1983	187	216	403
1984	143	233	376
1985	239	137	376
1986	116	210	326
Total	**6,496**	**5,536**	**12,032**

Number of helicopters titled by manufacturer/country and percent of the total fleet (as of September 17, 1987)

Manufacturer	USA	%	Can.	%	UK	%	France	%	W. Germ.	%	Swiss	%
Aerospatiale	686	7	119	9	105	19	276	56	114	26	77	49
Agusta	86	1	1	.5	6	1	1	.5	8	2	1	1
Bell	4,417	47	846	66	168	31	163	33	136	31	43	28
Boeing	44	.5	-	-	-	-	-	-	-	-	-	-
Enstrom	518	5	19	2	47	9	5	1	13	3	3	2
Hiller	767	8	26	2	20	4	2	.5	5	1	-	-
Hynes	170	2	3	.5	8	1	-	-	2	1		
MBB	206	2	14	1	12	3	-	-	84	19	5	3
McDonnell Douglas	746	8	130	10	24	5	5	1	15	3	6	4
Robinson	365	4	12	1	42	8	4	1	16	4	5	3
Schweizer	779	8	54	4	14	3	31	6	47	11	16	10
Sikorsky	633	7	52	4	81	15	2	.5	2	1	-	-
Westland	9	.1	-	-	11	2	-	-	-	-	-	-
Total	9,426		1276		538		489		445		156	

Source: Air Track, Hilliard, Florida

U.S. Civil helicopter accident trends

Year	Total Flight Hours	No. of Accidents Per 100,000 hrs.	Fatal Accidents Per 100,000 hrs.	Fatalities Per 100,000 hrs.	Injuries Per 100,000 hrs.
1980	2,338,370	13.43	2.44	4.40	6.50
1981	2,686,139	11.43	1.49	2.75	6.81
1982	2,335,611	12.74	2.21	3.65	6.96
1983	2,280,037	11.71	1.80	2.94	5.88
1984	2,503,301	10.39	1.64	2.64	6.99
1985	2,160,322	10.55	1.99	2.82	7.08
1986	2,406,000	8.81	1.79	3.12	3.99
1987P	2,810,000	7.19	1.42	2.42	3.27

Source: Accidents, Fatal Accidents & Fatalities are from the National Transportation Safety Board (NTSB). Injury data is from the FAA Accident/Incident Data System data base.

*P=Preliminary. The 1987 preliminary data is based on projections from the first six months of 1987.

Special Note: The accident rates for previous years will vary due to corrections and subsequent revision of data. Readers should also be aware that the HAI Preliminary Accident Reports (PAR's) available through subscription, are based on monthly data. PAR monthly and cumulative totals are not updated and may vary from other, more current data.

EMS Statistics: The NTSB was preparing an EMS Study as the 1988 Helicopter Annual went to press. The study analyzed civil commercial EMS accidents in a comprehensive review. HAI, through its EMS and Safety Committees, and other organizations, was commended for their efforts in helping reduce the EMS accident rate in the past year. Copies of the report will be available from the NTSB.

**Statistics are +-2% due to rounding errors.

U.S. exports of civil helicopters

Region of Destination	1982	1983	1984	1985	1986
Canada/ Greenland	17	16	8	12	12
Latin America/ Caribbean	63	38	32	25	39
Europe	49	51	89	18	45
Middle East	13	48	12	6	26
Asia	38	44	62	51	54
Oceania	21	8	25	18	19
Africa	53	11	5	7	15
Total Exported	254	216	233	137	210
Value in Millions of Dollars					
Canada/ Greenland	$15.20	$9.7	$4.1	$5.1	$3.2
Latin America/ Caribbean	$49.5	$47.0	$42.0	$19.0	$24.4
Europe	$42.0	$50.7	$52.8	$5.4	$25.6
Middle East	$12.9	$48.6	$16.3	$24.5	$78.7
Asia	$50.40	$59.2	$107.5	$141.0	$125.7
Oceania	$10.6	$1.1	$9.3	$9.5	$7.8
Africa	$25.3	$15.8	$1.8	$5.3	$11.9
Total Value	$205.9	$232.1	$233.8	$209.8	$277.3

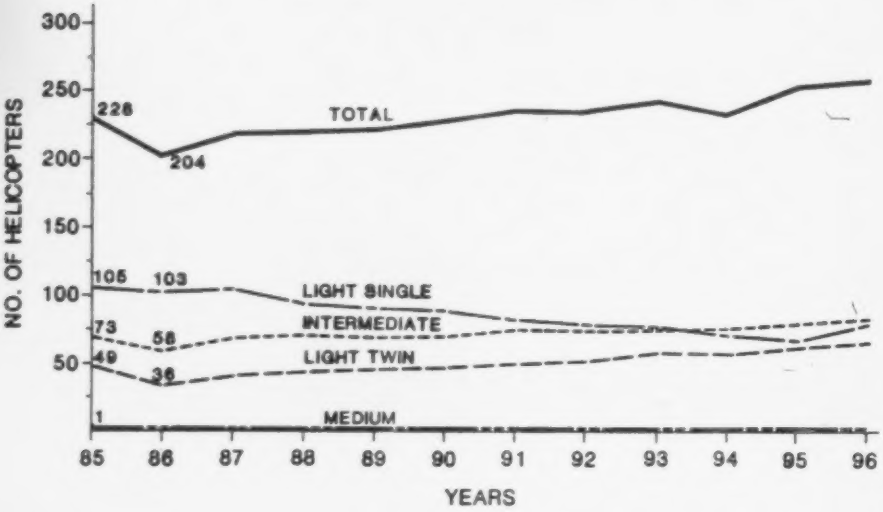
Source: Bureau of the Census, "U.S. Exports, Schedule B, Commodity by county," Report FT446 (Annually).

U.S. imports of civil helicopters

Country of Origin	1982	1983	1984	1985	1986
France	167	46	13	13	21
Germany	15	48	16	35	55
Italy	1	1	30	8	8
United Kingdom	-	15	2	4	3
Total Imported	**183**	**110**	**61**	**60**	**87**
Value in Millions of Dollars					
France	$74.2	$39.6	$14.9	$13.7	$10.8
Germany	8.9	35.8	9.7	19.9	43.9
Italy	1.1	.08	19.2	3.9	5.7
United Kingdom	.7	13.3	7.5	7.2	2.2
Total Value	**$84.9**	**$88.7**	**$51.3**	**$44.7**	**$62.6**

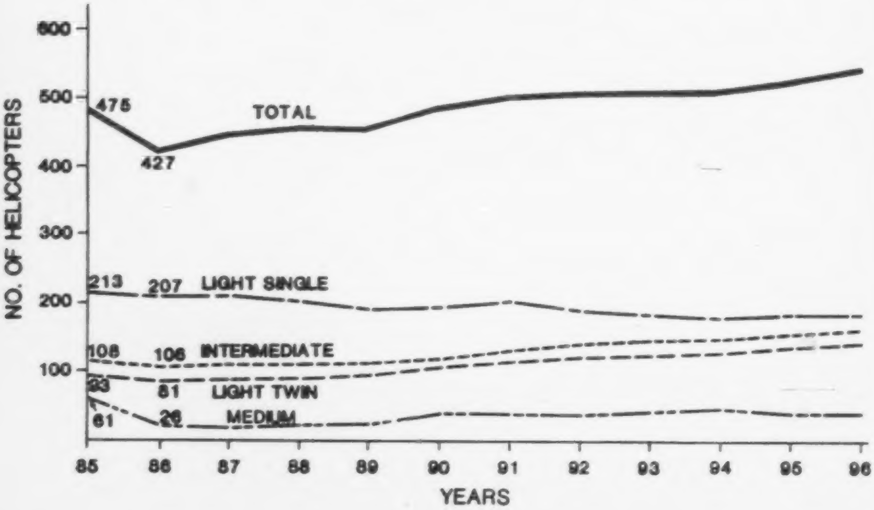
Source: Bureau of the Census, "U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country of Origin," Report FT246 (Annually).

Civil Helicopter Shipments to the U.S. Market
Forecast: 1985-1996



Source: National Research Council, Transportation Research Board

Civil Helicopter Shipments Worldwide
Forecast: 1985-1996

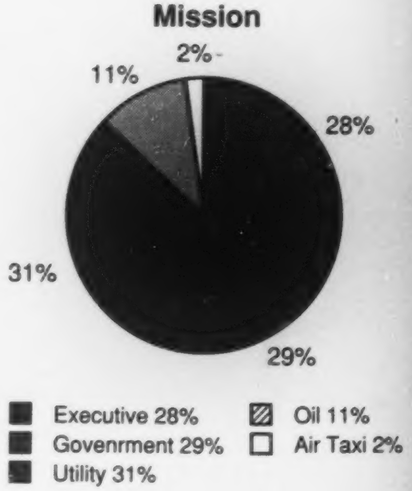


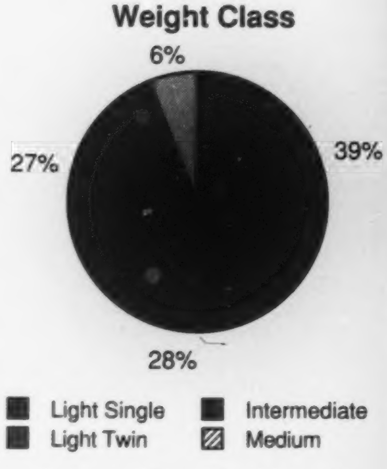
Source: National Research Council, Transportation Research Board

Civil Market Outlook
1987-1996

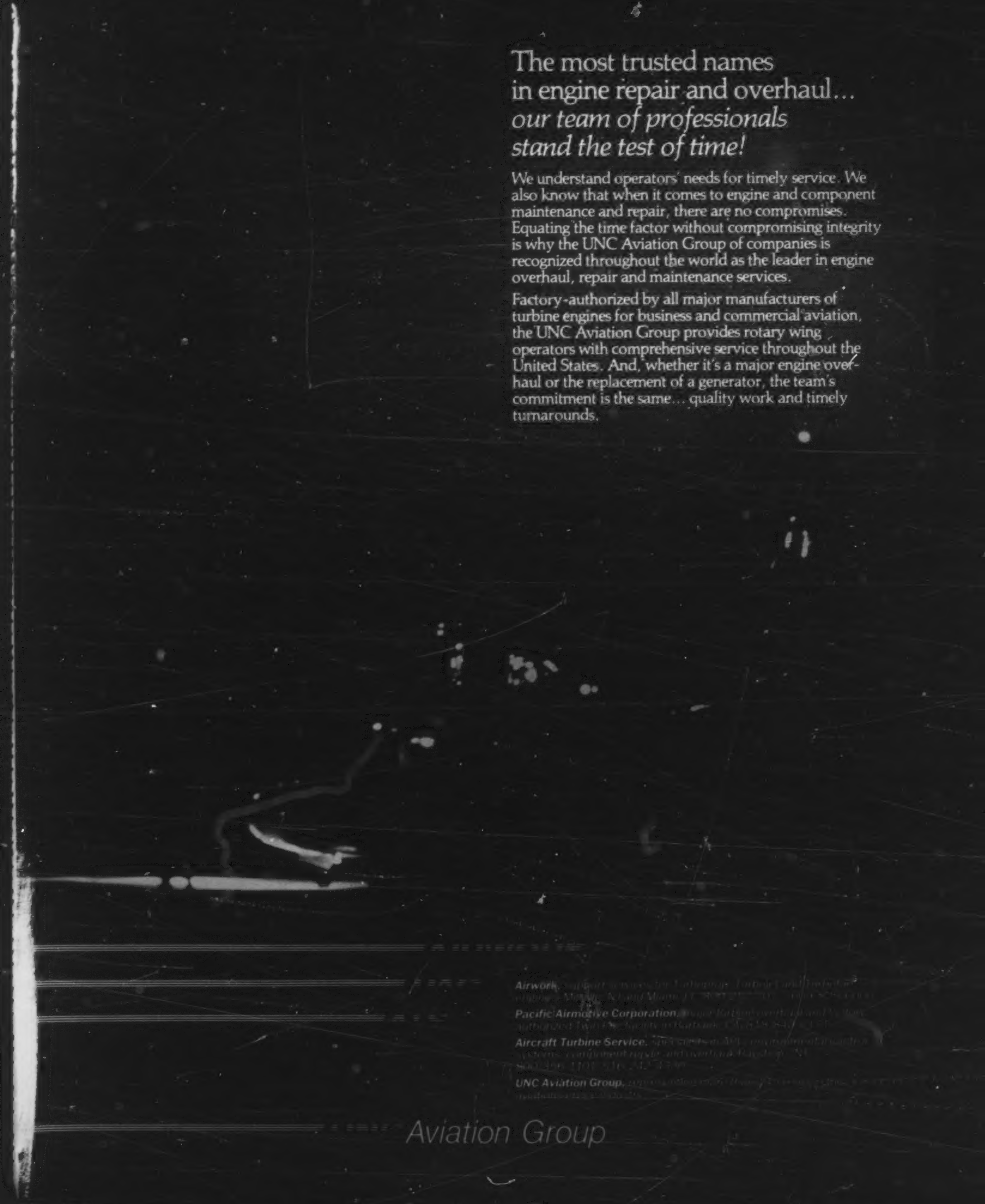
New Sales – Units

Total: 4700 Aircraft





Source: Sikorsky Aircraft



The most trusted names in engine repair and overhaul… *our team of professionals stand the test of time!*

We understand operators' needs for timely service. We also know that when it comes to engine and component maintenance and repair, there are no compromises. Equating the time factor without compromising integrity is why the UNC Aviation Group of companies is recognized throughout the world as the leader in engine overhaul, repair and maintenance services.

Factory-authorized by all major manufacturers of turbine engines for business and commercial aviation, the UNC Aviation Group provides rotary wing operators with comprehensive service throughout the United States. And, whether it's a major engine overhaul or the replacement of a generator, the team's commitment is the same… quality work and timely turnarounds.

Airwork. [illegible]

Pacific Airmotive Corporation. [illegible]

Aircraft Turbine Service. [illegible]

UNC Aviation Group. [illegible]

Aviation Group

Heliport and Helipad Statistics

This heliport statistical data was compiled by HAI's Operations Department and is based on source data from the Federal Aviation Administration's (FAA) National Flight Data Center (NFDC) as of 10/1/87. NFDC reports reflect only those permanent heliports which have been reported to the FAA, and do not include temporary heliports, offshore heliports, or infrequently used helicopter landing sites.

The total number of reported helicopter landing areas has increased by 13.08 percent since 10/31/86. According to NFDC data, the totals below reflect an increase of 52 percent since 12/31/80.

95.2 percent of all U.S. helicopter landing sites are designated as private use, while 4.8 percent are designated as public use. 29.9 percent of all reported landing areas are located at hospitals. 2.4 percent are located at airports.

In the above table, those heliports located at hospitals but owned by local governments are included in the figures for both categories. Those owned by hotels or oil companies have also been included in each state's corporate total. Government figures do not include those landing areas operated by the military.

42.3 percent of all helicopter landing areas are controlled by corporate operator/owners. Federal or local governments control 13.8 percent of all reported landing areas; individuals 9.3 percent; military operations 3.6 percent; oil companies 2.8 percent; and hotels 2.1 percent.

			PUBLIC USE			PRIVATE USE		
State	**Total Heliports, Helistops, and Heliports at Airports**	**Change in Total from 10/31/86**	**Total**	**Heliports & Helistops**	**Heliports at Airports**	**Total**	**Heliports & Helistops**	**Airports**
Alaska	27	-3	10	8	2	17	14	3
Alabama	44	+4	2	1	1	42	42	0
Arkansas	18	+4	1	0	1	17	16	1
Arizona	88	+12	1	0	1	87	86	1
California	363	+44	24	3	21	339	338	1
Colorado	113	+10	5	1	4	108	108	0
Connecticut	59	+12	3	2	1	56	55	1
D.C	19	0	2	0	2	17	17	0
Delaware	15	+1	1	1	0	14	14	0
Florida	169	+14	1	1	0	168	168	0
Georgia	77	+4	1	0	1	76	76	0
Hawaii	22	+4	4	1	3	18	18	0
Idaho	22	+3	0	0	0	22	22	0
Illinois	198	+11	6	5	1	192	189	3
Indiana	90	+7	4	3	1	86	84	2
Iowa	44	0	1	0	1	43	43	0
Kansas	26	+4	3	0	3	23	23	0
Kentucky	27	+1	0	0	0	27	27	0
Louisiana	175	+21	5	5	0	170	168	2
Maine	9	+1	1	1	0	8	8	0
Maryland	47	+1	0	0	0	47	45	2
Massachusetts	72	+19	4	2	2	68	68	0
Michigan	63	+12	3	3	0	60	59	1
Minnesota	24	+5	2	0	2	22	21	1
Mississippi	21	+3	0	0	0	21	21	0
Missouri	84	+13	5	3	2	79	77	2
Montana	19	+5	1	1	0	18	18	0
Nebraska	21	+2	0	0	0	21	21	0
Nevada	28	+2	1	1	0	27	27	0
New Hampshire	21	+11	2	1	1	19	19	0
New Jersey	186	+20	5	5	0	181	181	0
New Mexico	15	+2	1	1	0	14	14	0
New York	124	+11	12	10	2	112	112	0
North Carolina	46	-1	1	1	0	45	44	1
North Dakota	6	+1	0	0	0	6	6	0
Ohio	186	+16	24	21	3	162	161	1
Oklahoma	84	+41	4	4	0	80	80	0
Oregon	79	+19	3	3	0	76	74	2
Pennsylvania	247	+20	10	10	0	237	236	1
Rhode Island	10	+4	1	1	0	9	9	0
South Carolina	18	+5	0	0	0	18	18	0
South Dakota	7	+3	0	0	0	7	7	0
Tennessee	52	+12	4	3	1	48	47	1
Texas	406	+32	11	10	1	395	394	1
Utah	29	+1	2	0	2	27	27	0
Virginia	87	+5	5	3	2	82	82	0
Vermont	14	+1	1	1	0	13	13	0
Washington	95	+9	3	1	2	92	91	1
Wisconsin	27	+5	0	0	0	27	27	0
West Virginia	25	+2	0	0	0	25	25	0
Wyoming	12	0	1	0	1	11	11	0
Totals	**3760**	**+435**	**181**	**117**	**64**	**3579**	**3551**	**28**

State	HOSPITAL public	HOSPITAL private	Military	Government	Oil	Hotels	Corporate	Individual
Alaska	3	1	2	16	4	0	6	1
Alabama	0	16	6	5	0	0	12	5
Arkansas	0	12	1	2	0	0	0	3
Arizona	0	29	1	8	0	2	42	5
California	1	77	10	93	18	9	163	12
Colorado	1	35	1	21	4	3	49	4
Connecticut	0	9	0	1	0	1	43	2
Washington D.C.	0	2	4	7	2	0	4	0
Delaware	0	0	0	3	0	0	10	1
Florida	0	56	2	21	0	5	75	15
Georgia	0	28	5	15	0	4	20	4
Hawaii	0	6	1	10	0	2	4	3
Idaho	0	9	2	5	0	0	3	3
Illinois	0	88	2	27	1	4	60	15
Indiana	0	22	5	10	0	2	32	16
Iowa	0	28	4	4	0	1	4	3
Kansas	0	14	0	5	0	0	3	3
Kentucky	0	10	1	2	0	2	8	3
Louisiana	1	45	2	18	53	3	107	2
Maine	0	3	0	2	0	0	4	0
Maryland	0	16	2	5	0	1	11	7
Massachusetts	0	11	8	3	0	1	36	11
Michigan	0	17	1	6	0	2	30	12
Minnesota	0	9	0	3	0	0	8	7
Mississippi	0	11	0	7	0	0	1	4
Missouri	1	45	2	5	0	3	17	12
Montana	0	12	1	1	0	0	3	2
Nebraska	0	13	1	1	0	0	2	4
Nevada	0	1	1	9	0	5	8	0
New Hampshire	0	1	0	0	0	0	15	3
New Jersey	0	15	7	42	1	3	122	17
New Mexico	0	7	0	5	0	1	4	0
New York	0	25	4	21	0	0	67	8
North Carolina	0	18	8	6	0	0	11	2
North Dakota	0	1	1	1	0	0	1	2
Ohio	1	61	1	28	0	7	61	26
Oklahoma	1	46	5	7	0	3	22	2
Oregon	0	30	3	5	0	0	34	8
Pennsylvania	0	68	7	9	0	4	129	34
Rhode Island	0	5	0	4	0	0	1	1
South Carolina	0	8	3	0	0	0	8	0
South Dakota	0	2	0	1	0	0	4	0
Tennessee	0	17	2	5	0	1	22	5
Texas	2	82	7	33	24	6	224	52
Utah	0	12	1	7	0	1	8	3
Virginia	0	33	7	18	0	0	31	4
Vermont	1	0	9	0	0	0	2	2
Washington	0	30	6	6	0	2	35	16
Wisconsin	0	12	1	3	0	0	7	6
West Virginia	0	8	0	1	0	0	14	2
Wyoming	0	5	2	2	0	0	4	0
Totals	12	1111	139	519	107	78	1591	352

The Helicopter Association International Heliport Department is working with the National Association of State Aviation Officials to develop a Regional Heliport Directory for member and non-member use. Limited participation of state aviation agencies is hampering this effort. Currently, the FAA Airport/Facility Directory publishes data on public use heliports. Also, some regional associations and states publish additional heliport data which we would like to include in our regional directory.

If your state is not participating in this effort, you are encouraged to ask your aviation officials to contact HAI or NASAO for information. If you own a private heliport and you are willing to permit others to use your facility (on an emergency or special permission basis) please advise your state and HAI.

As an interim service, the HAI plans to produce a limited number of heliport directories with basic site data. The directory will include the location of the heliport, the name of the heliport owner, the heliport operator, telephone numbers and addresses. The directory will be available by state or cover the entire U.S. If you are interested in a copy of this data, contact the HAI Heliports Director. Cost of the directories is to be determined.

World Civil Helicopter Records

Class E-1 helicopters
Without payload

6/21/72
Altitude 12.442m/40.820ft

Jean Boulet (France)
Alouette SA 315-001 Lama
Artouste 111B 735 KW
Istres

3/26/66
Distance in a
closed circuit 2.800.20km/1.739.96mi

Jack Schweibold (USA)
Hughes YOH-6A No. 24213
1 Allison T-63-A-5
Edwards AFB, California

4/6-7/66
Distance in a
Straight line 3.561.55km/2.213.04mi

Robert G. Ferry (USA)
Hughes YOH-6A No. 24213
1 Allison T-63-A-5
Culver City, California to
Ormond Beach, Florida

9/1-30/82
Speed around the world 56.97kph/35.40mph

H. Ross Perot, Jr.,pilot (USA)
J.W. Coburn, co-pilot
Bell 206L-11 LongRanger
Allison 250-C28B, 435 hp
29 days, 3 hours, 8 minutes, 13 seconds

8/5/82-7/22/83
Around the
world (solo) 56.765.38km/35.258mi

Dick Smith (Australia)
Bell JetRanger 111
Allison 250-C-20 J,420shp

12/14/70
Speed over a
3km course 348.971kph/216.839mph

Byron Graham (USA)
Sikorsky S-67
2 GE T-58
Windsor Locks, Connecticut

8/11/86
Speed over a
15kmm course 400.87kph/249.10mph

Trevor Egginton (UK)
Westland G-Lynx
2 Rolls Royce Gem MK-531
Yeovil, Somerset, England

Closed circuit

8/26/64
100km speed 340.15kph/211.35mph

Boris Galitsky (USSR)
Mil Ml-6; 2 TB-2BM
Podmoscovnoe

2/8/82
500km speed 345.74kph/214.84mph

Thomas Doyle (USA)
Sikorsky S-76
2 Allison 250-C-30, 640 shp
West Palm Beach, Florida

Class E-1a, light helicopters
Less than 500kgs/1,102 lbs

12/29/53
Altitude 4.789m/15.712ft

Jean Dubos (France)
SNCASO Djinn 2
Turbomeca Palouste
Villacoublay

10/19/85
Distance in a
Closed circuit 88kms/196.29mi

Richard Fenwick
Robinson R22
1 Lycoming 0320
Toussus-Deauville-Toussus

5/11/82
Distance in a
Straight line 263.615km/163.803mi

Ivan D. Blackburn (Canada)
Robinson R-22
Lycoming 0-320 124 hp
Patridge Point, Sudburg

5/11/82
Speed over a
3km course 176kph/109mph

Richard G. Kirkwood (Canada)
Robinson R-22wl
Lycoming 0-320, 124 hp
Sault Ste. Marie, Ontario

Closed circuit

5/12/82
100 km speed 170.817kph/106.141mph

Gary J. Ertel (USA)
Robinson R-22
Lycoming 0-320, 124 hp
Sault Ste. Marie, Ontario

Class E-1b, light helicopters
500-1,000kgs/1,102-2,204lbs

6/21/72
Altitude 12.424m/40.820ft

Jean Boulet (France)
Alouette SA 315-001 Lama
Artouste lll B 735
Istres

3/21/66
Distance in a
closed circuit 1.700.124km/1.056.408mi

Jack L. Zimmerman (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

2/8/61
Distance in a
Straight line 1.176.79km/731.15mi

A.P. Averill (USA)
Bell 47-G
Franklin 0-335
El Paso to Texarkana, Texas

3/24/66
Speed over a
3km course 274.73kph/170.70mph

Lt. Col. Richard T. Heard (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Closed circuit

3/13/66
100km speed 259.47kph/161.22mph

Maj. A.L. Darling (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

3/13/66
500km speed 254.59kph/158.19mph

Maj. A.L. Darling (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Class E-1c, light helicopters
1,000-1,750kg/2,204-3,858lbs

4/6-7/66
Altitude 10,856m/35,617ft

Jean Boulet (France)
Alouette SA 351-001
Artouste III B 735 KW
Istres

3/26/66
Distance in a
closed circuit 2,800.20km/1,739.96mi

Jack Schweibold (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

4/6-7/66
Distance in a
straight line 3,561.55km/2,213.04mi

Robert G. Ferry (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Culver City, California to Ormond Beach, Florida

5/13/71
Speed over a
3km course 310kph/192.6mph

Dennis Prost (France)
SA 341-01 Gazelle
Istres

Closed circuit

5/13/71
100km speed 296kph/183.9mph

Dennis Prost (France)
SA 341-01 Gazelle
Istres

3/12/66
500km speed 249.84kph/155.24mph

Col. David M. Kyle (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Class E-1d, light helicopters
1,750-3,000kg/3,858-6,614lbs

12/11/64
Altitude 10,713.7m/35,150ft

Maj. E.F. Sampson (USA)
Bell UH-1D
1 Lycoming T-52-L-13
Fort Worth, Texas

4/17/68
Distance in a
closed circuit 1,528.77km/949.93mi

Alexay Annossov (USSR)
Mil M1-1; AL-26B

4/20/74
Distance in a
straight line 1,714.837km/1,065.55mi

Siegfried Hoffman (W. Germany)
Adam Teleki
BO 105-C, D-HABV
2 Allison 250-C-20, 640 shp
Ottobrun, W. Germany to
Hinojosa de Duque, Spain

2/6/82
Speed over a
3km course 342.61kph/212.90mph

Nicholas Lappos (USA)
Sikorsky S-76
West Palm Beach, Florida

Closed circuit

2/6/82
100km speed 331.22kph/205.82mph

David Wright (USA)
Sikorsky S-76
West Palm Beach, Florida

11/23/64
500km speed 286.83kph/178.22mph

Maj. Billy L. Odneal (USA)
Bell UH-1D
1 Lycoming T-53-L-13
Fort Worth, Texas

Class E-1e, light helicopters
3,000-4,500kg/6,614-9,920lbs

4/29/75
Altitude 9,071m/29,760ft

Maj. Gen. M. Khosrowdad (Iran)
Bell Model 214A
1 Lycoming LTC4B-8D
Ahwaz

9/23/64
Distance in a
closed circuit 2,000.146km/1,242.83mi

CWO Joseph C. Watts (USA)
Bill UH-1D
1 Lycoming T-53-L-11
Edwards AFB, California

9/27/64
Distance in a
straight line 2,170.70km/1,348.81mi

Capt. Michael N. Antoniou (USA)
Bell UH-1D
1 Lycoming T-53-L-11
Edwards AFB, California to Rogers, Arizona

2/4/82
Speed over a
3km course 340.48kph/211.57mph

William Kramer (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

8/11/86
Speed over a
15km course 400.87kph/249.10mph

Trevor Egginton (UK)
Westland G-Lynx
2 Rolls Royce Gem MK-531
Yeovil, Somerset, England

Closed circuit

2/6/82
100km speed 334.688kph/207.97mph

David Wright (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

2/8/82
500km speed 345.74kph/214.84mph

Thomas Doyle (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

Specialized Aviation Organizations

A listing of organizations with interest in the helicopter industry. Those organizations marked with asterisk are also Affiliate Members of the Helicopter Association International. The ■ indicates the telex number and the ♦ indicates the fax number.

Africa

***Helicopter Association of Southern Africa**
P.O. Box 18045
Rand Airport
1419
South Africa
☎11-827-2516
■429 807EXECUT
Director: Cor. Z.A. Beek

Australia

***General Aviation Association**
452 Stinson Crescent
Bankstown Airport
Sydney N.S.W.
2200 Australia
☎02-709-2385 ■AA122247
Secretary: Barry Thompson

***Helicopter Association of Australia**
P.O. Box 346
Revesby N.S.W.
2212 Australia
☎02-709-4494 ■176765 ♦02 707-2044
President: Guy Lloyd

Canada

Air Transport Association of Canada
747 Metropolitan Life Building
99 Bank Street
Ottawa, Ontario, K1P 6B9
Canada
☎613-233-7727
Chairman, Helicopter Committee:
Georges Jo Delaney
c/o Viking Helicopters, Ltd.
P.O. Box 419
400 Cite Des Jeunes Blvd.
Saint Clet, PQ, J0P 1S0
Canada
☎514-455-5687 ■05-25196

Aircraft Operations Group
150 Metcalfe Street
Suite 400
Ottawa, ON, K2P 1P1
Canada
☎613-230-5476
Chairman: C.J. Foster

***Harbour Heliport Society**
P.O. Box 94222
Richmond, BC, V0N 1B0
Canada
☎604-273-4688
Secretary: Ken Glaze

International Civil Aviation Organization
1000 Sherbrooke St., West
Montreal, PQ, H3A 2R2
Canada
☎514-285-8219 ■0524513
♦514-288-4772
President: Dr. Assad Kotaite

France

*Groupement Francais de l'Helicoptere
6 Rue Galilee, Paris Cedex, 16
75116 France
☎1-4-723-7252
President: Lionel Poilane

Germany

German Aerospace Industries Association
Bundesverband der Deutschen
Luftfahrt-, Raumfahrt-
und Austrustungs-industrie e.V.
Konstantinstrase 90
D-5300 Bonn 2, West Germany
☎0228-330011 ■0885-528
♦0228/33 07 08

***German Helicopter Association**
Rossmarkt 10
6000, Frankfurt, West Germany
☎069/29 90 06-46
President: Bernard Liscutin

Helicoptercentre
1310, D-3062
Bueckeburg, West Germany
☎05 722-5533
Chairman: Gerhard Lange

The Netherlands

European Helicopter Operators
Committee (EHOC)
c/o KLM Helicopters
P.O. Box 7700
Schiphol East - 1117 ZL
The Netherlands
☎ 20-491339 ■ 14233
Chairman: Frans Bokma

New Zealand

Aviation Industry Association
2045
Wellington 1
New Zealand
☎4-722-707
President: J.H. Roseingrave

Sweden

Swedish Helicopter Operators Association
Skrakvagen 119
184 00 Akersberga
Sweden
Director: Göran Wallert

United Kingdom

Aviation Consultants Association
The Royal Aeronautical Society
4 Hamilton Place
London W1V OBQ
☎01-499-3515

***British Helicopter Advisory Board**
Building C2, Fairoaks Airport
Chobham,
Surrey EU24 8HX
England
Chief Executive: Capt. J.P. Durrant

British Rotorcraft Museum, Ltd.
The Airport, Weston-S-Mare
Avon BS24 8EL
England
☎0934-822524
Chairman: Elfan ap Rees

European Helicopter Association
"Carousel" New Domewood
Nr. Copthorne
Sussex Rh10 3HF
England
☎0342-712610
Secretary: Capt. Eric Brown, R.N.

General Aviation Manufacturers and Traders Association, Ltd.
26 High Street, Brill, Aylesbury
Buckinghamshire HP18 9ST
England
☎0844-238389 ■ 838 807
Chief Executive: A.B.J. (Danny) Forman, M.B.E.

USSR

***Aero Club of Moscow**
Federatasia Aviatsionnogo Sportasssr
B.B. 395
395 - Moscow
U.S.S.R. D-362

United States

Aerospace Industries Association of America (AIA)
1725 DeSales Street, N.W.
Washington, D.C. 20036
☎202-429-4600
President: Don Fuqua

***Airborne Law Enforcement Association**
601 East Lafayette Street
Baltimore, MD 21202
☎301-396-2431
President: Major R.R. Raffensberger

Aircraft Owners and Pilots Association (AOPA)
421 Aviation Way
Frederick, MD 21701
☎301-695-2000
President: John L. Baker

***Alaska Air Carriers Association**
4134 Ingra
Anchorage, AK 99503
☎907-562-1272
President: Bob Engelbrecht

***American Helicopter Society**
217 N. Washington Street
Alexandria, VA 22314
☎703-684-6777 ♦703-739-9279
Executive Director: John F. Zugschwert

American Institute of Aeronautics and Astronautics
370 L'Enfant Promenade, SW
Washington, D.C. 20024
☎202-646-7400
Executive Director: James Harford

***American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS)**
612 Pennsylvania Avenue
San Diego, CA 92103
☎619-542-0388
Executive Director: Nina Merrill

***Appalachian Helicopter Pilots Association (AHPA)**
Route 5 Box 40
Blountville, TN 37617
☎703-889-4000 (Virginia)
President: Bill R. Starnes

Army Aviation Association
1 Crestwood Road
Westport, CT 06880
☎203-226-8184 ♦222-9863
Executive Vice President: Arthur Kesten

***Bay Area Heliport Council**
c/o Aris Helicopters
1138 Coleman Avenue
San Jose, CA 95110
☎408-998-3266
Co-Chairman: Stephen R. Sullivan

***Eastern Region Helicopter Council (ERHC)**
c/o American Express
Hangar E
Westchester County Airport
White Plains, NY 10604
☎914-948-5388
President: Ron Lombardo

Flight Safety Foundation, Inc.
5510 Columbia Pike
Arlington, VA 22204-3194
☎703-820-2777 ■901176
♦ 703-820-9399
President: John H. Enders

***Helicopter Association of America**
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ■89-615 ♦683-4745
Chairman: Stephen R. Sullivan

***Helicopter Association International**
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ■89-615 ♦683-4745
President: Frank L. Jensen, Jr.

***Helicopter Association of Florida**
4806 S.W. 119 Terrace
Cooper City, FL 33330
☎305-434-1760
President: Don Mitchell

Helicopter Club
Div. of National Aeronautics Association
217 N. Washington Street
Alexandria, VA 22314
☎703-684-6777 ♦703-739-9279
President: John F. Zugschwert

***Helicopter Environmental Liaison Office (H.E.L.O.)**
P.O. Box 41
Puuene, HI 96784
☎808-244-7511
Executive Director: Tony D'Antonio

***Helicopter Foundation International**
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ■89-615 ♦683-4745
Executive Director: Robert C. Kerner

***Helicopter Operators of Texas**
P.O. Drawer 785
Porter, TX 77365
☎713-354-5606
President: Dr. Darrell T. Elkins

***Helicopter Safety Advisory Conference (HSAC)**
c/o Tenneco, Inc.
16951 JFK Boulevard
Houston, TX 77032
☎713-757-8107 ■792-839
Advisor: Lynn Clough

***Metroplex Helicopter Association**
P.O. Box 111083
Arlington, TX 76007
☎214-330-8167
President: Frank Kearney

***Michigan Helicopter Association**
P.O. Box 2613
Southfield, MI 48037
☎313-666-3131
President: Dennis H. Neubacher

***Mid-Atlantic Helicopter Association (MAHA)**
1611 N. Kent Street, Suite 905
Arlington, VA 22209
☎703-243-3633
President: Jack Thompson

National Aeronautic Association (NAA)
1762 R Street, NW
Washington, D.C. 20009
☎202-265-8720
President: Major General Clifton von Kann

National Agricultural Aviation Association (NAAA)
115 D Street, S.E., Suite 103
Washington, D.C. 20003
☎202-546-5722
Executive Director: Harold M. Collins

National Air Transportation Association (NATA)
4226 King Street
Alexandria, VA 22302
☎703-845-9000
President: Lawrence L. Burian

National Association of State Aviation Officials (NASAO)
777 14th Street, N.W., Suite 717
Washington, D.C. 20005
☎202-783-0588
Executive Vice President: Robert Warner

***National Broadcast Pilots Association (NBPA)**
c/o KUSA-9 TV
1089 Bannock Street
Denver, CO 80204
☎303-893-9000
Founder: Leo Galanis, Jr.

National Business Aircraft Association (NBAA)
1200 18th Street, N.W.
Washington, D.C. 20036
☎202-783-9000 ■ 904 186
President: Jonathan Howe

***National EMS Pilots Association (NEMSPA)**
P.O. Box 2354
Pearland, TX 77588
☎713-997-2563
Executive Director: Don Wright

***National Flight Nurses Association**
P.O. Box 8222
Rapid City, SD 57709
☎605-343-4464
President: Carol Wichman, R.N.

National Flight Paramedics Association (NFPA)
Arizona Emergency Flight Division
P.O. Box 4206
Mesa, Arizona 85201
☎(602) 834-1297
President: Dave Samuels

Naval Helicopter Association
3211 Jefferson Street
San Diego, CA 92110
☎619-299-8043
Industry Chairman: Roger McTighe

***New England Helicopter Pilots Association**
P.O. Box 88
Bedford, MA 01730
☎617-973-7181
President: George F. Vincent

Northwest Helicopter Association
c/o EMS Helicopters
3796 Bancroft Road
Bellingham, WA 98225
☎206-671-6657
President: Allan E. Scott

***Popular Rotorcraft Association**
P.O. Box 8756
Clinton, LA 70722
☎504-683-3545
President: George J. Charlet

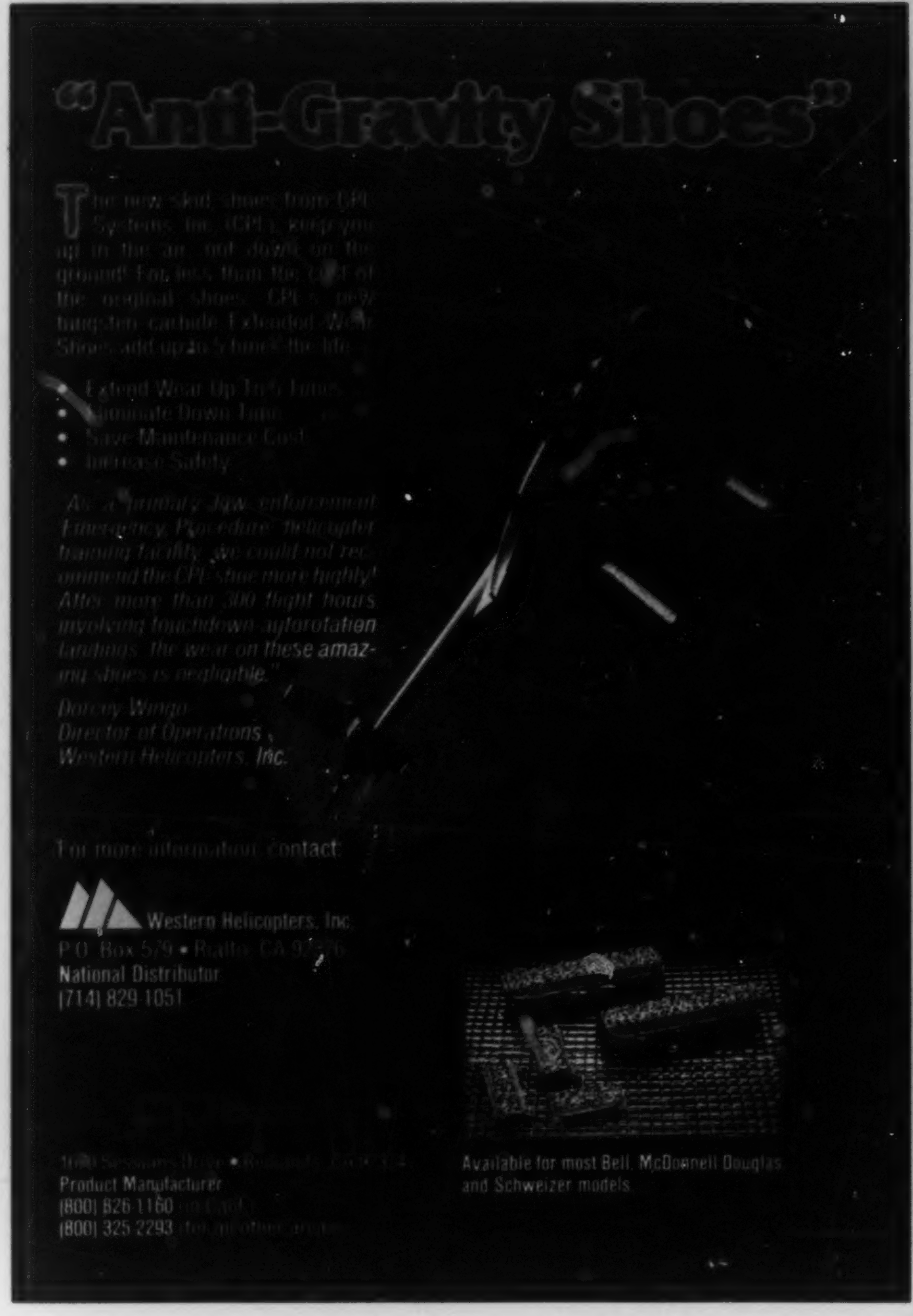
***Professional Helicopter Pilots Association of California**
P.O. Box 9558
Glendale, CA 91206
☎213-421-1742
President: Ms. Dayle Buschkotter

***Tampa Bay Helicopters Council**
c/o Aviation Business Consultants, Inc.
7507 S. Tamiami Trail, Suite 176
Sarasota, FL 34231
☎813-921-4941
President: Ms. Stephanie Slavin

The Twirly Birds
P.O. Box 18029
Oxon Hill, MD 20745
☎301-567-4407
Secretary: John Slattery

The Whirly Girls, Inc.
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646
Executive Director: Jean Ross Howard

***Western Helicopter Safety Advisory Council**
P.O. Box 1337
Provo, UT 84603
☎801-375-1124
Chairman: Donald G. Andrews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- Increase Safety

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Dorcey Wingo
Director of Operations,
Western Helicopters, Inc.

For more information, contact:

Western Helicopters, Inc.
P.O. Box 579 • Rialto, CA 92376
National Distributor
(714) 829-1051

[illegible] Sessions Drive • [illegible]
Product Manufacturer
(800) 826-1160 [illegible]
(800) 325-2293 [illegible]

Available for most Bell, McDonnell Douglas and Schweizer models.

Key Publications In The World of Helicopter Operations

The ■ represents the telex number and the ♦ indicates the company's fax machine number.

Aerospace Daily
c/o Murdoch Magazines
1156 15th St., NW
Washington, D.C. 20005
☎ 202-822-4600
Editor: William Hall

Aerospace Facts and Figures
Aerospace Industries Association
of America, Inc.
1725 DeSales Street, N.W.
Washington, D.C. 20036
☎ 202-429-4600
Director, Research Center: Virginia C. Lopez

aerokurier
Official Publication of the German
Helicopter Association
Godesberger Allee 70
D-5300 Bonn-Bad Godesburg
West-Germany
☎ 011-49-228-376661
Editor: Rolf Dorpinghaus

Air Beat
Sacramento County Sheriff's Department
Building 1020
McClellan AFB, CA 95652
☎ 916-648-0682
Editor: Gordon Robinson

Aircraft Bluebook- PRICE DIGEST
Intertee Publishing Corp.
P.O. Box 12901
Overland Park, KS 66212
☎ 1-800-654-6776
Editor: Mike Morlan

Aircraft Technical Publishers (ATP)
Helicopter Maintenance Libraries
101 South Hill Drive
Brisbane, CA 94005
☎ 800-227-4610 (US)
☎ 800-262-4172 (CA) ■ 171 048

Aircraft Forecast
Forecast Associates Inc.
22 Commerce Road
Newton, CT 06470
☎ 203-426-0800 ■ 467 615
Editor: Bill Dane

Airports
c/o Murdoch Magazines
1156 15th St., NW
Washington, D.C. 20005
☎ 202-822-4600
Editor: Bob Bunnell

Asian Aviation
Asian Aviation Publications
Maritime House
Cantonment Road
Singapore 0208
☎ 225-5444 ■ RS 38587 ♦ 2258390
Editor: Colin Gibson

Aviation Book Company
1640 Victory Blvd.
Glendale, CA 91201
☎ 818-240-1771

Aviation Buyer's Directory (ABD)
400 Main Street
Stamford, CT 06901
☎ 203-325-2647
Editor: Jerry Greenwald

Aviation International News
P.O. Box 277
21 Cross Avenue
Midland Park, NJ 07432
☎ 201-444-5075
Editor: Jim Holahan

Aviation Daily
c/o Murdoch Magazines
1156 15th Street, N.W.
Washington, D.C. 20005
☎ 202-822-4600
Editor: Joan Lowden

Aviation Week and Space Technology
1221 Avenue of the Americas
New York, NY 10020
☎ 212-512-4117
Editor: Donald E. Fink

Business and Commercial Aviation
Hangar C-1, Westchester County Airport
White Plains, NY 10604
☎ 914-948-1912
Editor: John W. Olcott

Business Aviation
c/o Murdoch Magazines
1156 15th Street, N.W.
Washington, D.C. 20005
☎ 202-822-4600
Editor: David Collogan

Canadian Aviation
777 Bay Street
Maclean Hunter Bldg., 5th Floor
Toronto, ON M5W 1A7, Canada
☎ 416-596-5791 ■ 06-219547 ♦ 416-596-5526
Editor: Hugh Whittington

Commuter Air
6255 Barfield Road
Atlanta, GA 30328
☎ 404-256-9800
Editor: Greg Landers

Commuter Regional Airline News
1925 North Lynn Street
Suite 304
Arlington, VA 22209
☎ 703-522-2354
Editor: Kathryn B. Creedy

Defence Helicopter World
The Shephard Press Ltd.
111 High Street, Burnham
Bucks SL1 7JZ, England
☎ (06286) 4311 ■ 846575
Editor: Paul Beaver

Directory of Heliports and Helistops
NASAO and Helicopter Association
International
1619 Duke Street
Alexandria, VA 22314-3406
☎ 703-683-4646 ■ 89-615 ♦ 703-683-4745

Flight International
Reed Business Publishing
Quadrant House, The Quadrant
Sutton, Surrey SM2 5AS
England
☎ 01-661-3321 ■ 892084 ♦ 01-661-3305
Editor: David Mason

Flying
1515 Broadway Avenue
New York, NY 10036
☎ 212-719-6950
Editor: Richard L. Collins

The Helicopter Annual
Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-3406
☎ 703-683-4646 ■ 89-615 ♦ 703-683-4745
Publisher: Frank L. Jensen, Jr.

Helicopters in Canada
Corvus Publishing Group
1224 53rd Avenue, N.E., Suite 158
International Airport
Calgary, AB T2E-7E2
Canada
☎ 403-275-9457 ■ 03-821172 ♦ 403-229-2788
Publisher: Paul Skinner

Helicopter International
Official Publication of the Helicopter
Club of Great Britain
Avia Press Associates
75 Elm Tree Road
Locking, Weston-s-Mare
Avon, England BS24 8EL
☎ 0934-822524/820711 ■ 44220
Editor: Elfan ap Rees

Helicopter News
c/o Phillips Publishing
7811 Montrose Road
Potomac, MD 20854
☎ 301-340-2100 ♦ 301-424-4297
Editor: Mark Morrow

Helicopter Update
1034 S. Claremont St.
San Mateo, CA 94402
☎ 415-572-1396
Editor: Sherry Knight

Helicopter World
111 High Street
Burnham, Bucks SL1 7JZ
England
☎ (06286)4311 ■ 846575
Editor: Ian Parker
Editor North America:
Frank Colucci
14 South Hill Road
Colonia, NJ 07067
☎ 201-388-4245

Helidata Daily News
75 Elm Tree Road
Locking, Weston-s-Mare
Avon, England BS24 8EL
☎ 0934-822524 ■ 44220
Editor: Elfan ap Rees

heliWorld Press
3229 Sunset Way
Bellingham, WA 98226
☎ 206-758-7396
Editor: Gary Traylor

Hospital Aviation
90 E. First South, #103
St. George, UT 84770
☎ 801-628-7563
President: Howard M. Collett

Interavia Aerospace Review
86 Avenue Louis-Casai
P.O. Box 162
CH-1216 Cointrin, Geneva
Switzerland
☎ 022-98-05-05 ■ 22 122 ITAV CH
♦ 022 983138
Editorial Director: Pierre Condom

Jane's All the World's Aircraft
Jane's Publishing Co. Ltd.
238 City Road
London, England EC1V 2PU
☎ 01-251-9281 ■ 894689
Editor: John W. R. Taylor

The Journal of the American Helicopter Society
217 N. Washington Street
Alexandria, VA 22314
☎ 703-684-6777 ♦ 703-739-9279
Publication Manager: Christopher Colligan

Monitor
Aviation Safety Institute
Box 304
Worthington, OH 43085
☎ 614-885-4242
Editor: Linda Tucker

The Official Helicopter Blue Book and The Official Helicopter Specification Book
Internat'l Helicopter Financial Services, Inc.
4256 N. Arlington Heights Road, Suite 205
Arlington Heights, IL 60004-1372
☎ 312-259-7711 ■ 720493 HELIBLUEBOOK
♦ 312-259-2202
Editor: Barry D. Desfor

Popular Rotorcraft Flying
P.O. Box 8756
Clinton, LA 70722
☎ 504-683-3545
President: George Charlet

Professional Pilot
3014 Colvin Street
Alexandria, VA 22314
☎ 703-370-0606 ■ 517267
Editor: C. V. Glines

Regional Aviation Weekly
c/o Murdoch Magazines
1156 15th St., NW
Washington, D.C. 20005
☎ 202-822-4600
Editor: Arnold Lewis

Revista Aerea
310 E. 44th Street
Suite 1601
New York, NY 10017
☎ 212-370-1740
Editor: Elaine Asch

Rotor and Wing's Helicopter Aerodynamics
News Plaza, P.O. Box 1790
Peoria, IL 61656
☎ 309-682-6626
Author: R. W. Prouty

Rotor and Wing International
News Plaza, P.O. Box 1790
Peoria, IL 61656
☎ 309-682-6626 ■ 469 661
Editor: David Jensen

Rotor and Wing International Rotorcraft Report
News Plaza, P.O. Box 1790
Peoria, IL 61656
☎ 309-682-6626 ☎ 800-521-2285
■ 469 661
Editor: Patricia Rickey

ROTOR Magazine
Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-3406
☎ 703-683-4646 ■ 89-615 ♦ 703-683-4745
Editor: Daniel P. Warsley

Rotor Roster
P.O. Box 610
Hilliard, FL 32046
☎ 912-496-7513
Editor: Lee Wonnacott

TAB Books/Aero Publishers, Inc.
P.O. Box 40
Blue Ridge Summit, PA 17214
☎ 717-794-2191 ■ 820 562
Aviation Editor: Jeff Worsinger

Vertiflite
217 N. Washington Street
Alexandria, VA 22314
☎ 703-684-6777 ♦ 703-739-9279
Editor: Christopher Colligan

Vertica
Maxwell House
Fairview Park
Elmsford, NY 10523
☎ 914-592-7700
Editor: P. Friedman

Western Flyer
P.O. Box 98786
Tacoma, WA 98498-0786
☎ 206-588-1743
Editor: Vernon Barr

World Aviation Directory
c/o Murdoch Magazines
1156 15th Street, N.W.
Washington, D.C. 20005
☎ 202-822-4600 ■ 892447 ♦ 202-293-2682
Managing Editor: Linda Falls

World Helicopter Marketing
Forecast Associates Inc.
22 Commerce Road
Newton, CT 06470
☎ 203-426-0800 ■ 467 615
Author: Edward Nebinger

World Helicopter Forecast
P.O. Box 4585
100 Northfield Street
Greenwich, CT 06830
☎ 203-661-7800 ■ 131526

Civil Aviation Officials Worldwide

The civil aviation officials included in this section are listed alphabetically by country.

Afghanistan
A. Watt
Civil Aviation Authority
P.O. Box 165
Kabul, Afghanistan

Algeria
Rachid Benyelles
Mistere de Transport
119, Rue DiDouche Mourad
Algiers, Algeria

People's Republic of Angola
V. de Mira Godinho
Director of National Civil
Aviation
Caixa Postal 569
Luanda, Angola

Argentina
Department of Air Transportation
Piso 22, C.P. 1332
Av. 9 de juliio 1925
1076 Buenos Aires,
Argentina

Australia
R.M. Taylor
Secretary of the Department
of Aviation
G.P.O. Box 367
Canberra, ACT, 2601
Australia

Austria
Dipl. Ing. J. Rausch
President of the Federal
Office of Civil Aviation
Schnirchgasse 11
A - 1030 Vienna
Austria

Bahamas
D.A.F. Ingraham
Director, Civil Aviation
Department
P.O. Box N-975
Nassau, Bahamas

Bahrain
Shaikh Hamad Bin Abdullah
Al-Khalifa
Asst. Under Secy.-Civil Aviation
Ministry of Development &
Industry
P.O. Box 586
Manama, Bahrain

Bangladesh
Civil Aviation Authority
Headquarters Office
Kurmitola
Dhaka 6, Bangladesh

Barbados
Russell W. Kellman
Permanent Secretary
International Transportation Div.
Prime Minister's Office
"Herbert House"
St. Michael, Barbados

Belgium
W. Vanderperren
Director General of Administration
de l'Aeronautique
Centre Communication
Brussels, B-1000
Belgium

Belize
Luigi Zaldivar
Chief of Civil Aviation
Belize International Airport
P.O. Box 367
Belize City, Belize

Benin
M. Girigissou Gado
Mininster, of Equipment
& Transportation
B.P. 372
Cotonou, Benin

Bermuda
J.R. Pitman
Director of Civil Aviation
Bermuda Air Terminal
Ferry Beach, Bermuda

Bolivia
Gen. Rene Guzma Fort
Director General of Aviation
P.O. Box 7080
Camacho
La Paz, Bolivia

Botswana
J.H. Reynolds
Director of Civil Aviation
P.O. Box 250
Gaborone, Botswana

Brazil
Lt. Brig. D.J. de Mattos
Minister - Aeronautique
Av. Marachal Camara,
110 Andar
Rio de Janeiro,
Brazil

Brunei
Department of Civil Aviation
Brunei International
Bandar Seri Begawan,
Brunei

Bulgaria
Vasil Tsanov
Minister of Transportation
11 Rue Levski
Sofia, Bulgaria

Burma
J. Cardozo
Director of Air Traffic Services
No. 104, Strand Road
Rangoon, Burma

Burundi
Directorate of Aeronautics
B.P. 694
Bujumbura, Burundi

Cameroon
Benjamin Itce
Ministere des Transports,
Box 173
Yaounde, Cameroon

Canada
C. Lafrance
Asst. Deputy Minister of Aviation
Transport Canada Bldg.
330 Sparks St., Tower C.
Ottawa, ON K1A 0N8
Canada

Central African Republic
Etienne Guekoli
Directeur General L'Aviation Civile
B.P. 941
Bangui,
Central African Republic

Chad
Mabourouk D. Gami
Director of Civil Aeronautics
B.P. 96
N'Djamena, Chad

Chile
Gen. Sergio Pineiro Correa
Director General of Civil Aviation
Sergio Correa
1170, 10 Piso
Casilla 1152
Correo Central
Santiago, Chile

China
Hu Yizhou
Director General
General Administration
of Civil Aviation of China
P.O. Box 644
Beijing,
People's Republic of China

Colombia
G.G. Echeverri
Chief
Department of Civil Aeronautics
Aeropuerto Internacional Eldorado
Apartado Aereo 12307
Bogota,
Colombia

Congo
Hilaire Mounthalt
Minister for Civil Aviation
B.P. 128
Brazzaville, Congo

Costa Rica
Capt. R. DeBenefictis
Director Aeronautics Admins.
Apartado Postal 5026
San Jose, Costa Rica

Cuba
Guillermo Frias
Minister of Transportation
Calle 23 No. 64, Vedado Seccion
Plaza de la Revolucion
Havana, Cuba

Cyprus
M. Herodotou
Director of Civil
Aviation Department
25 St. George's Hill
Nicosia, Cyprus

Czechoslovakia
Ing. Jiri Nulicek
Director of Civil
Aviation Administration
Na Prikope 33
110 05 Prague 1,
Czechoslovak Socialict Republic

Denmark
V.K.H. Eggers
Director General
of Civil Aviation Department
Luftfartshuset
Box 744
DK-2450 Copenhagen SV,
Denmark

Dominican Republic
Francisco Ant. Alba Lopez
General de Brigada Pilota
Dir. General de Aeronautica Civil
Apartado Postal 1180Santo
Domingo, R.D.

Ecuador
Brig. General Raul Lopez Balarezo
Director of General Aviation
Box 2077
Quito, Ecuador

Egypt
Dr. K. El. Hussainy
Vice Minister of Civil Aviation
Cairo International Airport
Cairo, Egypt

El Salvador
Director General of
Civil Aeronautics Department
Aeropuerto Internacional de
Ilopango
San Salvador, El Salvador

Ethiopia
Lulseged Filfilu
Head of Civil
Aviation Authority,
Air Transport Bureau
P.O. Box 978
Addis Ababa, Ethiopia

Fiji
Villame Gonelevu
Chairman of Civil Aviation
Authority of Fiji
Private Bag
Nadi Airport, Fiji

Finland
Carl-Eric Calas
Director General of
National Board of Aviation
Box 50
SF-01531 Vantaa
Finland

France
Daniel Tenenbaum
Director General of
Civil Aviation Department
93, Boulevard du Montparnasse
F-75270
Paris, France

Ghana
Gp. Capt. J.O. Koranteng
Ag. Director-General
Ghana Civil Aviation Authority
P.O. Box 87
Kotoka Airport
Accra, Ghana

Greece
G. Tzouvalis
Governor of Civil
Aviation Authority
Ministry of Transportation
& Communication
P.O.B. 73751
GR-166 04
Hellinico, Greece

Guatemala
Col. Adolfo Corzo
Director of Civil
Aeronautics Department
Aeropuerto Internacional La
Aurora
Guatemala City, Guatemala

Guinea
Director General of
Civil Aviation Department
Ministere des Transports
Box 95
Conakry, Guinea

Guyana
Seeram Prashad
Civil Aviation Department
Ministry of Transport
Wights Lane
Kingston,
Georgetown, Guyana

Haiti
Directeur General
De l'Aviation Civile
Aeroport International
Francois Duvalier
Boite Postal 1346
Port-au-Prince, Haiti

Honduras
Capt. Jorge Fley
Chief of Operations of
Civil Aeronautics Department
Aeropuerto International
Tegucigalpa, Honduras

Hong Kong
J.T. Thorpe
Director of Civil
Aviation Department
United Centre, 10th
95 Queensway, Hong Kong

Hungary
Endre Farkas
Director General of
Civil Aviation Department
Box 87
H-1400 Budapest,
Hungary

Iceland
Petur Einarsson
Director General of
Civil Aviation Department
Reykjavik Airport
Reykjavik 101,
Iceland

India
Air Marshal P.C. Sen
Director General of
Civil Aviation
East Blocks-II & III
R.K. Puram
New Delhi 110 066
India

Indonesia
Air Vice Marshal Sutoyo
Director General of Aviation
Jalan Angkasa #8
Jakarta, Indonesia

Ireland
James Mitchell
Minister for Communications
Civil Aviation Department
Kildare Street
Dublin 2, Ireland

Israel
S. Shohamy
Director of Civil
Aviation Administration
Ben Gurion International
Airport 70 100
Lod, Israel

Italy
Ing. Domenico Majone
Director General of
Civil Aviation
Piazzale degli Archivi de Stato
1-00144
Rome, Italy

Ivory Coast
Messpuhp Diomande
Director,
Civil Aviation Department
B.P. V 134
Abidjan, Ivory Coast

Jamaica
Archibald C. Gunter
Director of Civil
Aviation Department
9, Trinidad Terrace
Kingston 5, Jamaica

Japan
Takahide Yamada
Director General of
Civil Aviation Bureau
1-3 Kasumigaseki, 2-
Tokyo 100, Japan

Jordan
Maj. Gen. Khaled Ali
Director General of
Civil Aviation Authority
P.O. Box 7547
Amman, Jordan

Kenya
J.N. Kahuki
Directorate of Civil Aviation
P.O. Box 30163
Nairobi, Kenya

Korea, Republic of
Kim Yo Ung
Director General
of Civil Aviation
Civil Aviation Administration
Sunan District, Pyon,
Republic of Korea

Kuwait
Jaber Al-Athbi Al-Sabah
Director General of
Civil Aviation
P.O. Box 17
Safat, Kuwait

Laos
Director of Civil Aviation
P.O. Box 119
2 Pang Kham St.
Vientiane, Laos

Liberia
McLeod Eleanor Darpoh
Minister of Transportation
Monrovia, Liberia

Libya
Mudarak Shama
Director General of
Civil Aviation
Tripoli, Libya

Luxembourg
Jean Morby
Director of Civil Aviation
Ministry of Transport
19-21, Boulevard Roy
Luxembourg City,
Luxembourg

Madagascar
Bernard Rakoto-Razafindrazato
Inspector of Aeronautics
B.P. 921
Antananarivo 101,
Madagascar

Malaysia
Dr. Abdul Kuddus Ahmad
Director General of
Civil Aviation
Terminal 2
47200 Subang, Selangor,
Malaysia

Mali
Moussa Alassane Toure
Director of Civil Aviation
Bamako, B.P. 227
Mali

Mexico
Ing. Daniel Diaz
Civil Aviation Directorate
Bulevar Xola y Aveni
de la Universidad
Mexico 12, D.F.,
Mexico

Morocco
A. Daoudi
Directorate of Civil Aviation
Casier Officiel
Rabat-Chellah, Morocco

Mozambique
Nelson Barreto
Director, Civil Aviation
Department
P.O. Box 227
Maputo, Mozambique

Nepal
T.M.S. Dongol
Supervisor of Civil
Aviation Department
Babar Mahal
Kathmandu, Nepal

Netherlands
H. Raben
Director General of
Civil Aviation Department
Koninginnegracht 19-
P.O. Box 20903
2500 EX The Hague,
Netherlands

Netherlands Antilles
Dr. C.E. Cathalina
Director of Civil Aviation
Seru Mahuma z/n
Curacao,
Netherlands Antilles

New Zealand
Air Commodore Stuart McIntyre
Director of Civil
Aviation Division
Private Bag
1 Wellington,
New Zealand

Nicaragua
Samuel A. Granera
Director Civil Aeronautics
Edificio 17
Apartado Postal 4936
Managua, Nicaragua

Niger
Amadou Nouhou
Directeur de Civil Aviation
Niamey, B.P. 727
Niger

Nigeria
Brig. JT Useni
Minister of Transport & Aviation
P.M.B. 12744
Lagos, Nigeria

Norway
E. Willoch
Director General of
Civil Aviation Administration
P.O. Box 8124 Dep.
N-0032 Oslo 1,
Norway

Pakistan
Khursheed Anwar Mirzra
Director General,
Civil Aviation Authority
19 Liaquat Barracks
Karachi 4, Pakistan
Panama
Ing. Carlos Batista
Director of Air Transportation
Edificio DeDiego
2nd Floor
5 Panama City, Panama

Paraguay
Ministerio de Defense
Nacional, 2 Piso
Avenida Mariscal Lopez y
Vice-Presidente Sanchez
Asuncion, Paraguay

Peru
FA. Pinazo
Director General of
Aero Transport
Av. 28 de Julio 800
1 Lima, Peru

Philippines
Bureau of Air Transportation
Manila International Airport
Pasay City D-732,
Philippines

Poland
Janusz Kaminski
Minister of Transportation
ul. Chalubinskiego 6
00-928 Warsaw,
Poland

Portugal
Fernando A. de Melo Antunes
Director General of
Civil Aviation
Avenida da Liberdade, 193
1298 Lisbon, Portugal

Romania
D.N. Puiu
Chief of Civil
Aviation Department
Bdul Dinicu Golescu
Bucharest
Sectorul 1, Romania

Saudi Arabia
H.E. Sheikh Nasir Al-Assaf
President of Civil
Aviation Organization
P.O. Box 887
21442 Jeddah, Saudi Arabia

Somalia
Jama Gas Maawiye
Minister of Air and Land
Transportation
P.O. Box 310
Mogadishu, Somalia

South Africa
J.J.S. Germishuys
Directorate of Civil Aviation
Private Bag X193
Pretoria 0001,
South Africa

Spain
D. Pedro T. Lopez
Director General of
Civil Aviation
Avenida de America
25 Madrid, Spain

Sri Lanka
H.B. Wijekon
Director of Civil
Aviation
Lotus Road
Columbo 1, Sri Lanka

Sudan
Sir Hassan Bashir
Director General of
Civil Aviation
P.O. Box 430
Khartoum, Sudan

Sweden
Bengt A.W. Johansson
Director General
Civil Aviation Administration
S-601 79 Norrkoping,
Sweden

Switzerland
H.P. Staffelbach
Managing Director
Department of Civil Aviation
Zurich Airport
CH-8058 Zurich,
Switzerland

Syria
Abdullah Al-Moughrabi
Director of Civil Aviation
and Transportation
1 Sahet El-Najmeh
Damascus, Syria

Taiwan
Chen Chia-Ju
Director General of
Civil Aeronautics Administration
Ministry of Communications
Taipel Sungshan Airport
CAA Building
1052 Taipei
Taiwan, Republic of China

Thailand
Dr. Chitti Watcharasindu
Director General of
Department of Aviation
Ngarmdu-Plee
Tung Mahamek
Bangkok 10120,
Thailand

Trinidad and Tobago
G. Seigoret
Director of Civil
Aviation Department
P.O. Box 552
Port of Spain,
Trinidad & Tobago

Tunisia
Moncef Ayadi
Directorate of Civil Aviation
1, Rue d' Athenes
Tunis, Tunisia

Turkey
Ismet Erustun
Director General of
Civil Aviation Department
Gar/Ankara, Turkey

Uganda
Stanislaus Kisekka
Minister of Transportation and
Communication
P.O. Box 5536
Kampala, Uganda

USSR
B. Bugayev
Union of Soviet Socialist Republics
Ministry of Civil Aviation
Leningradsky Prospek
SU 125836 Moscow
USSR

United Kingdom
Christopher Tugendha
Chairman of Civil
Aviation Authority
CAA House
45/59 Kingsway
London, WC2B 6TE
United Kingdom

Uruguay
Col. L.E. Revello
Director General of
Civil Aviation
Camino Carrasco 5519
Canelones, Uruguay

Venezuela
Ing. Fernando Curiel
Director of Civil Aviation
Torre Bandagro, Piso 33
Parquew Central
Av. Lecuna
Caracas 1010, Venezuela

Yugoslavia
Mustafa Pljakic
President Federal Comm. for
Transport & Communication
Air Transport Sector
Bulevar AVNOJ 104
YU-11070 Belgrade, Yugoslavia

Zaire
S.P. Madyiwa
Director of Civil Aeronautics
B.P. 6514
Kinshasa, Zaire

Zambia
Director of Civil
Aviation Department
P.O. Box RW 137
Lusaka, Zambia

Civil Aviation Officials in the U.S.

A listing of key Department of Transportation and Federal Aviation Administration officials. Direct phone numbers and mail codes follow each listing. FAA regional headquarters and technical centers are also listed.

United States
Department of Transportation
400 Seventh Street, S.W.
Washington, D.C. 20590
202-366-4000

The Secretary of Transportation:
James H. Burnley IV
202-366-1111 S-1

Deputy Secretary of Transportation:
Mimi Weyforth Dawson
202-366-1111 S-1

Director, Office of
Aviation Operations:
Paul L. Gretch 202-366-2423 P-40

Director, Office of Int'l Relations:
Thomas Colwell 202-366-2356 P-50

Director, Office of Essential Air Service:
John V. Coleman 202-366-5903 S-60

Federal Aviation Administration (FAA)
800 Independence Ave., S.W.
Washington, D.C. 20591

Administrator: T. Allan McArtor
202-267-3111 AOA-1

Chief of Staff: Michael P. Goldfarb
202-267-3111 AOA-2

Executive Director: Robert E. Whittington
202-267-8111 AEX-1

Asst. Admin. for Gov't & Industry:
Joan Bauerlein 202-267-3277 AGI-1

Chief Counsel, Office of Chief Counsel:
E. Tazewell Ellett 202-267-3773 AGC-1

Assistant Chief Counsel,
Regulations and Enforcement Division:
John H. Cassady 202-267-3073 AGC-200

Assistant Chief Counsel,
Litigation Division:
James Dillman 202-267-3661 AGC-400

Assistant Chief Counsel,
Procurement Legal Division:
Theron A. Gray 202-267-3480 AGC-500

Assistant Administrator,
Office of Public Affairs (acting):
Robert Buckhorn202-267-3883 APA-1

Director, Special Projects:
Don H. Clausen 202-267-3469 APA-6

Civil Aviation Information and
Distribution, Audio Visual Division:
Jerry Lavey 202-267-3471 APA-100

Director, Office of Aviation Saftey:
William Hendricks 202-267-9612 ASF-1

Manager, Accident Investigation Division:
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This second year of the 100th Congress will be of particular significance as important legislation affecting the civil helicopter industry and the aviation industry at large is considered.

To contact members of the Senate, use their direct telephone numbers or this address: The Honorable..., U.S. Senate, Washington, D.C. 20510.

To determine the status of a Senate bill, phone the Legislative Information desk at: 202-224-2971.

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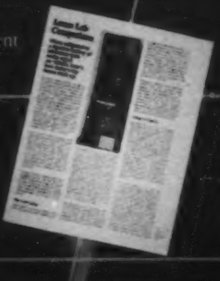

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The Directory of Federal & State Business Assistance: A Guide for New and Growing Companies ($19.00) is another useful source, available from the National Technical Information Service (NTIS), US Department of Commerce, Springfield, VA 22161 (703/487-4650).

Other publications of interest include *VHF-AM Communications Equipment Selection and Installation Practices for Helicopters* by E.H. Bolz and L.D. King, U.S. Department of Transportation, 1985, available from NTIS, and the Forest Service Organizational Directory, Department of Agriculture, 1986.

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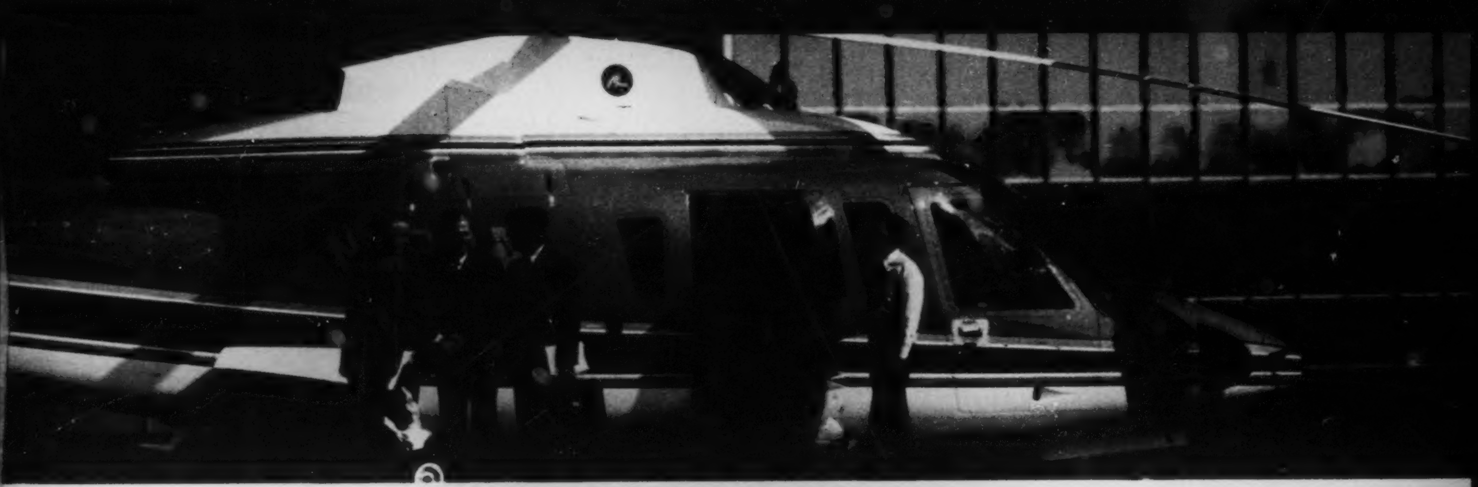

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From corporate boardrooms to world financial centers, from state capitols to the capitals of foreign states, the word is out on the S-76. In performance, reliability and cost-effectiveness, it's the best executive helicopter in the air.

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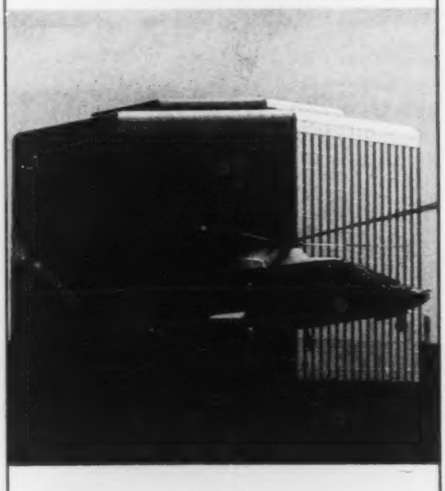

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BUYER'S GUIDE

HELICOPTERS

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HELICOPTER ASSOCIATION INTERNATIONAL

The Civil Helicopter

Significant data on helicopters manufactured by domestic and international airframe companies.

Today's helicopter fleet offers a broad range of aircraft, uniquely able to perform a variety of missions.

All data are listed in both English and Metric units of measure. In addition, such key data as maximum optional fuel capacity, engine horsepower, range with optional fuel and a listing of standard avionics provide a complete picture of each machine's capabilities.

This information is to be used solely as a guide. Helicopter capabilities will vary with flight conditions and installed options.

Data and operating limitations for specific missions are available from the manufacturer. A manufacturer's contact and phone number is listed for each model. Prices shown are subject to change by the manufacturer.

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Manufacturer/Model Aerospatiale Lama
Total Production (all variants) 399 **First flight** 1969
Comments Specifications shown are for SA315B Lama. This aircraft holds absolute altitude record for helicopters of any category: 40,820 ft/12,442m by Jean Boulet in 1972.
Engine(s) Artouste III B1 **HP (takeoff)** 858 shp
Dimensions main rotor 36.2 ft/11 m **Tail rotor** 6.3 ft/1.9 m
Height 10.1 ft/3.1m **Length** 42.3 ft/12.9m **Width** 7.8 ft/2.4m
Empty weight 2,266 lbs/1,028 kg **Gross weight** 4,300 lbs/1,950 kg
Useful load 2,034 lbs/922 kg **External** 2,646 lbs/1,200 kg
Vne 113 kts/209 kmh **Max cruise** 103 kts/192 kmh
Max rate of climb 1,083 fpm/330 mpm
HIGE 16,565 ft/5,050m **HOGE** 15,100 ft/4,600m
Service ceiling 17,720 ft/5,400m **S/E service ceiling** N/A
Std fuel 152 gal/573 lit **Max fuel** N/A
Max range std fuel (no reserve) 278 nm/515 km
Range with opt fuel N/A
VFR Crew 1 **passengers** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $665,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Super Frelon
Total production (all variants) 105 **First flight** 1962
Comments Specifications shown are for SA321JA Super Frelon.
Engine(s) (3) Turbomeca Turmo III C6 **HP (takeoff)** 1,515 shp ea.
Dimensions main rotor 62.0 ft/18.9m **Tail rotor** 13.1 ft/4.0m
Height 21.9 ft/6.7m **Length** N/A **Width** 16.1 ft/4.9m
Empty weight 15,245 lbs/6,915 kg **Gross weight** 28,660 lbs/13,000 kg
Useful load 13,415 lbs/6,085 kg **External** 11,000 lbs/5,000 kg
Vne 148 kts/275 kmh **Max cruise** 134 kts/248 kmh
Max rate of climb 1,300 fpm/396 mpm
HIGE 6,230 ft/1,900m **HOGE** limited to 27,515 lbs/2,480 kg at sea level
Service ceiling 10,000 ft/3,050m **S/E service ceiling** *3,940 ft/1,200m on 2 engines. *One engine out. Two engine service ceiling.
Std fuel 1,030 gal/3,900 lit **Max fuel** 1,822 gal/6,897 lit
Max range std fuel (no reserve) 432 nm/800 km @ 126 kts/232 kmh
Range with opt fuel 764 nm/1,416 km
VFR Crew 2 **Passengers** 27
Standard avionics SFIM autopilot.
1986 base price ($U.S.) Out of production
For more information contact Ron LaFleur (214)641-0000

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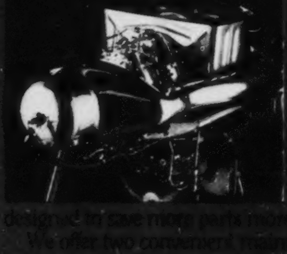
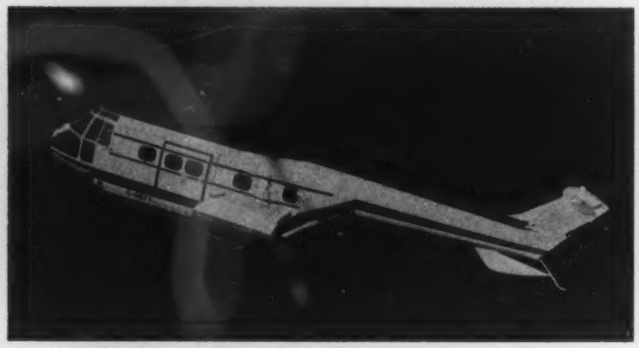
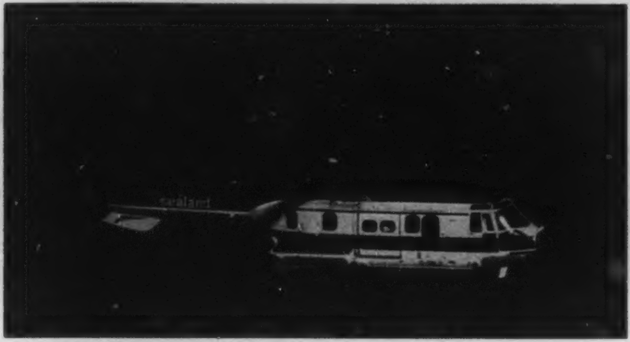


Manufacturer/Model Aerospatiale Puma
Total production (all variants) 700 **First flight** 1965
Comments Specifications shown are for SA330J Puma.
Engine(s) (2) Turbomeca Turmo IV C **HP (takeoff)** 1,494 shp ea.
Dimensions main rotor 49.5 ft/15.1m **Tail rotor** 10.0 ft/3.0m
Height 16.9 ft/5.1m **Length** 59.8 ft/18.2m **Width** 9.8 ft/3.0m
Empty weight 8,358 lbs/3,792 kg **Gross weight** 16,315 lbs/7,400 kg
Useful load 7,957 lbs/3,608 kg **External** 7,055 lbs/3,200 kg
Vne 142 kts/263 kmh **Max cruise** 139 kts/258 kmh
Max rate of climb 1,200 fpm/366 mpm
HIGE 7,545 ft/2,300m **HOGE** 5,580 ft/1,700m
Service ceiling 15,750 ft/4,800m **S/E servcie ceiling** 7,220 ft/2,200m
Std fuel 408 gal/1,544 lit **Max fuel** 1,098 gal/4,156 lit
Max range std fuel (no reserve) 297 nm/550 km @ 134 kts/248 kmh
Range with opt fuel 799 nm/1,481 km
VFR Crew 2 **Passengers** 18
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000



Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 188 ("C" & "L") **First flight** 1978
Comments Specifications shown are for AS332L Super Puma.
Engine(s) (2) Turbomeca Makila 1A **HP (takeoff)** 1,661 shp ea.
Dimensions main rotor 51.2 ft/15.6m **Tail rotor** 10.0 ft/3.1m
Height 16.1 ft/4.9m **Length** 61.4 ft/18.7m **Width** 11.1 ft/3.4m
Empty weight 9,560 lbs/4,335 kg **Gross weight** 18,960 lbs/8,600 kg
Useful load 9,400 lbs/4,265 kg **External** 9,920 lbs/4,500 kg
Vne 150 kts/278 kmh **Max cruise** 144 kts/266 kmh
Max rate of climb 1,595 fpm/486 mpm
HIGE 8,200 ft/2,500m **HOGE** 6,070 ft/1,850m
Service ceiling 130 ft/4,200m **S/E service ceiling** 5,250 ft/1,600m
Std fuel 544 gal/2,059 lit **Max fuel** 1,344 gal/5,088 lit
Max range std fuel (no reserve) 459 nm/850 km @ 138 kts/256 kmh
Range with opt fuel 1,207 nm/2,235 km
VFR Crew 2 **Passengers** 23
Standard avionics SFIM AP155P autopilot.
1986 base price ($U.S.) $4,610,000 ("L" Model)
For more information contact Ron LaFleur (214)641-0000



Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 188 ("C" & "L") **First flight** 1978
Comments Specifications shown are for AS332C Super Puma.
Engine(s) (2) Tubomeca Makila **HP (takeoff)** 1,661 shp ea.
Dimensions main rotor 51.2 ft/15.6m **Tail rotor** 10.0 ft/3.1m
Height 16.1 ft/4.9m **Length** 61.4 ft/3.1m **Width** 11.1 ft/3.4m
Empty weight 9,260 lbs/4,200 kg **Gross weight** 18,410 lbs/8,350 kg
Useful load 9,150 lbs/4,150 kg **External** 9,920 lbs/4,500 kg
Vne 160 kts/296 kmh **Max cruise** 151 kts/279 kmh
Max rate of climb 1,732 fpm/528 mpm
HIGE 8,856 ft/2,700m **HOGE** 6,888 ft/2,100m
Service ceiling 15,088 ft/4,600m **S/E service ceiling** 6,232 ft/1,900m
Std fuel 406 gal/1,537 lit **Max fuel** 1,206 gal/4,565 lit
Max range std fuel (no reserve) 343 nm/635 km @ 140 kts/259 kmh
Range with opt fuel 1,019 nm/1,888 km
VFR Crew 2 **Passengers** 18
Standard avionics SFIM AP155P autopilot.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Gazelle
Total production (all variants) 1185 **First flight** 1967
Comments Specifications shown are for SA342J Gazelle.
Engine(s) (1) Turbomeca Astazou XIV H **HP (takeoff)** 592 shp
Dimensions main rotor 34.5 ft/10.5m **Tail rotor** 2.3 ft/0.7m
Height 10.5 ft/3.2m **Length** 39.3 ft/12m **Width** 6.6 ft/2m
Empty weight 2,164 lbs/982 kg **Gross weight** 4,190 lbs/1,900 kg
Useful load 2,026 lbs/918 kg **External** 1,540 lbs/700 kg
Vne 167 kts/310 kmh **Max cruise** 142 kts/264 kmh
Max rate of climb 2,010 fpm/613 mpm
HIGE 11,970 ft/3,650m **HOGE** 9,430 ft/2,875m
Service ceiling 14,105 ft/4,300m **S/E service ceiling** N/A
Std fuel 144 gal/545 lit **Max fuel** 197 gal/745 lit
Max range std fuel (no reserve) 407 nm/754 km @ 128 kts/238 kmh
Range with opt fuel 557 nm/1,032 km
VFR Crew 1 **Passengers** 4
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Not established.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil
Total production (all variants) 982 ("B" & "D") **First flight** 1976
Comments Specifications shown are for AS350B Ecureuil.
Engine(s) (1) Tubomeca Arriel 1B **HP (takeoff)** 641 shp
Dimensions main rotor 35.1 ft/10.7m **Tail rotor** 6.1 ft/1.9m
Height 10.3 ft/3.2m **Length** 42.6 ft/13m **Width** 8.3 ft/2.5m
Empty weight 2,428 lbs/1,101 kg **Gross weight** 4,300 lbs/1,950 kg
Useful load 1,872 lbs/849 kg **External** 2,000 lbs/907 kg
Vne 147 kts/272 kmh **Max cruise** 125 kts/232 kmh
Max rate of climb 1,555 fpm/474mpm
HIGE 9,675 ft/2,950m **HOGE** 7,380 ft/2,250m
Service ceiling 15,600 ft/4,750m **S/E service ceiling** N/A
Std fuel 137 gal/520 lit **Max fuel** 263 gal/995 lit
Max range std fuel (no reserve) 378 nm/700 km @ 121 kts/224 kmh
Range with opt fuel 726 nm/1,345 km
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $530,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale AStar Mark III
Total production (all variants) 982 ("B" & "D") **First flight** 1976
Comments Specifications shown are for AS350D AStar Mark III.
Engine(s) (1) Avco Lycoming LTS 101-600A3 **HP (takeoff)** 615 shp
Dimensions main rotor 35.1 ft/10.7m **Tail rotor** 6.1 ft/1.9m
Height 10.3 ft/3.2m **Length** 42.6 ft/13m **Width** 8.3 ft/2.5m
Empty weight 2,432 lbs/1,103 kg **Gross weight** 4,300 lbs/1,950 kg
Useful load 1,868 lbs/847 kg **External** 2,000 lbs/907 kg
Vne 147 kts/272 kmh **Max crusie** 125 kts/232 kmh
Max rate of climb 1,713 fpm/522 mpm
HIGE 8,858 ft/2,700m **HOGE** 5,577 ft/1,700m
Service ceiling 14,900 ft/4,540m **S/E service ceiling** N/A
Std fuel 137 gal/520 lit **Max fuel** 263 gal/995 lit
Max range std fuel (no reserve) 405 nm/750 km @ 108 kts/200 kmh
Range with opt fuel 777 nm/1,441 km
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $530,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil 2/TwinStar
Total production (all variants) 335 (E, F, F1 & F2) **First flight** 1979
Comments Specifications shown are for AS355F-1 Ecureuil 2/TwinStar.
Engine(s) (2) G.M. Allison 250-C20F **HP (takeoff)** 420 shp ea.
Dimensions main rotor 35.1 ft/10.7m **Tail rotor** 6.1 ft/1.9m
Height 10.2 ft/3.1m **Length** 42.6 ft/13m **Width** 8.3 ft/2.5m
Empty weight 2,900 lbs/1,315 kg **Gross weight** 5,291 lbs/2,400 kg
Useful load 2,391 lbs/1,085 kg **External** 2,300 lbs/1,043 kg
Vne 150 kts/278 kmh **Max cruise** 124 kts/230 kmh
Max rate of climb 1,496 fpm/456 mpm
HIGE 7,880 ft/2,400m **HOGE** 6,400 ft/1,950m
Service ceiling 13,120 ft/4,000m **S/E service ceiling** 2,790 ft/850m
Std fuel 193 gal/730 lit **Max fuel** 319 gal/1,205 lit
Max range std fuel (no reserve) 391 nm/725 km @ 113 kts/210 kmh
Range with opt fuel 646 nm/1,198 km
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $800,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Dauphin
Total production (all variants) 36 **First flight** 1972
Comments Specifications shown are for SA360C Dauphin.
Engine(s) (1) Turbomeca Astazou XVIII A **HP (takeoff)** 872 shp
Dimensions main rotor 37.7 ft/11.5m **Tail rotor** 3.0 ft/0.9m
Height 11.5 ft/3.5m **Length** 43.3 ft/13.2m **Width** 7.4 ft/2.2m
Empty weight 3,797 lbs/1,722 kg **Gross weight** 6,615 lbs/3,000 kg
Useful load 2,818 lbs/1,278 kg **External** 2,866 lbs/1,300 kg
Vne 170 kts/315 kmh **Max cruise** 146 kts/270 kmh
Max rate of climb 1,400 fpm/427 mpm
HIGE 8,035 ft/2,450m **HOGE** 5,740 ft/1,750m
Service ceiling 14,270 ft/4,350m **S/E service ceiling** N/A
Std fuel 169 gal/640 lit **Max fuel** 351 gal/1,330 lit
Max range std fuel (no reserve) 353 nm/655 km @ 133 kts/247 kmh
Range with opt fuel 733 nm/1,359 km
VFR Crew 1 **Passengers** 13
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Dauphin 2
Total production (all variants) 306 **First flight** 1985
Comments Specifications shown are for SA 365N1.
Engine(s) (2) Turbomeca Arriel 1C1 **HP (takeoff)** 705 shp ea.
Dimensions main rotor 39.17 ft/11.94m **Tail rotor** 3.60 ft/1.10m
Height 13.02 ft/3.97m **Length** 44.88 ft/13.68m **Width** 10.53 ft/3.21m
Empty weight 4,765 lbs/2,161 kg **Gross weight** 9,040 lbs/4,100 kg
Useful load 4,275 lbs/1,939 kg **External** 3,727 lbs/1,600 kg
Vne 160 kts/296 kmh **Max cruise** 153 kts/283 kmh
Max rate of climb 1,300 fpm/390 mpm
HIGE 6,890 ft/2,100m **HOGE** 3,610 ft/1,100m
Service ceiling 11,810 ft/3,600m **S/E service ceiling** 4,100 ft/1,250m
Std fuel 300 gal/1,135 lit **Max fuel** 472 gal/1,790 lit
Max range std fuel (no reserve) 460 nm/855 km @ 140 kts/260 kmh
Range with opt fuel 725 nm/1,344 km
VFR Crew 1 **Passengers** 13
Standard avionics None.
1987 base price ($U.S.) $2,805,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 188 **First flight** 1984
Comments Specifications shown are for AS332L 1 Super Puma.
Engine(s) (2) Tubomeca Makila 1A1 **HP (takeoff)** 1,819 shp ea.
Dimensions main rotor 51.18 ft/15.6m **Tail rotor** 10.0 ft/3.05m
Height 16.14 ft/4.92m **Length** 61.35 ft/18.7m **Width** 11.08 ft/3.38m
Empty weight 9,745 lbs/4,420 kg **Gross weight** 18,960 lbs/8,600 kg
Useful load 9,215 lbs/4,180 kg **External** 9,920 lbs/4,500 kg
Vne 150 kts/278 kmh **Max cruise** 144 kts/266 kmh
Max rate of climb 1,595 fpm/486 mpm
HIGE 10,168 ft/3,100m **HOGE** 7,544 ft/2,300m
Service ceiling 15,088 ft/4,600m **S/E service ceiling** 6,888 ft/2,100m
Std fuel 544 gal/2,059 lit **Max fuel** 1,344 gal/5,088 lit
Max range std fuel (no reserve) 470 nm/870 km @ 138 kts/256 kmh
Range with opt fuel 817 nm/1,514 km
VFR Crew 2 **Passengers** 25
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $6,150,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil
Total production (all variants) 982 ("B" & "D") **First flight** N/A
Comments Specifications shown are for AS350B1 Ecureuil.
Engine(s) (1) Tubomeca Arriel 1D **HP (takeoff)** 684 shp
Dimensions main rotor 35.1 ft/10.7m **Tail rotor** 6.10 ft/1.86m
Height 10.3 ft/3.14m **Length** 42.45 ft/12.94m **Width** 8.30 ft/2.53m
Empty weight 2,447 lbs/1,110 kg **Gross weight** 4,850 lbs/2,200 kg
Useful load 2,403 lbs/1,090 kg **External** N/A
Vne 147 kts/276 kmh **Max cruise** 123 kts/277 kmh
Max rate of climb N/A
HIGE 9,515 ft/2,900m **HOGE** 6,561 ft/2,000m
Service ceiling 16,000 ft/5,000m **S/E service ceiling** N/A
Std fuel 140 gal/530 lit **Max fuel** N/A
Max range std fuel (no reserve) N/A
Range with opt fuel N/A
VFR Crew 1 **Passengers** 5/6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $615,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil 2
Total production (all variants) 335 (E,F,F1,F2) **First flight** N/A
Comments Specifications shown are for AS355F2 Ecureuil 2.
Engine(s) (2) Allison 250 C 20F **HP (takeoff)** 420 shp ea.
Dimensions main rotor 35.1 ft/10.7m **Tail rotor** 6.10 ft/1.86m
Height 10.3 ft/3.14m **Length** 42.45 ft/12.94m **Width** 8.3 ft/2.53m
Empty weight 2,732 lbs/1,305 kg **Gross weight** 5,600 lbs/2,540 kg
Useful load 2,877 lbs/1,235 kg **External** 2,500 lbs/1,134 kg
Vne 150 kts/278 kmh **Max cruise** 124 kts/225 kmh
Max rate of climb 1,338 fpm/408 mpm
HIGE 6,560 ft/2,000m **HOGE** 4,920 ft/1,500m
Service ceiling 11,808 ft/3,600m **S/E service ceiling** N/A
Std fuel 193 gal/730 lit **Max fuel** 318 gal/1,205 lit
Max range std fuel (no reserve) 386 nm/716 km @ 110 kts/203 kmh
Range with opt fuel N/A
VFR Crew 1 **Passengers** 5/6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $950,000
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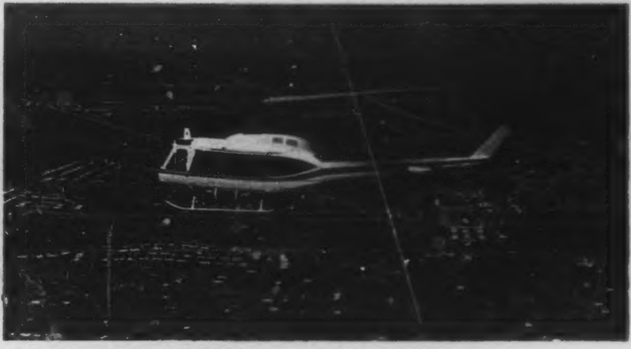
Manufacturer/Model Agusta A 109 MK 11 Widebody
Total production (all variants) 400+ **First flight** 1971
Comments Certified for single pilot IFR.
Engine(s) (2) Detroit Allison 250 C20B **HP (takeoff)** 740 shp
Dimensions main rotor 36.1 ft/11m **Tail rotor** 6.66 ft/2.03m
Height 10.8 ft/3.29m **Length** 35.1 ft/10.69m **Width** 9.45 ft/2.88m
Empty weight 3,258 lbs/1,478 kg **Gross weight** 5,730 lbs/2,599 kg
Useful load 2,472 lbs/1,120 kg **External** 2,000 lbs/907 kg
Vne 168 kts/311 kmh **Max cruise** 150 kts/278 kmh
Max rate of climb 1,650 fpm/503 mpm
HIGE 7,900 ft/2,408m **HOGE** 4,900 ft/1,494m
Service ceiling 15,000 ft/4,572m **S/E service ceiling** 5,500 ft/1,676m
Std fuel 148 gal/560 lit **Max fuel** 191 gal/723 lit
Max range std fuel (no reserve) 365 nm/676 km
Range with opt fuel 465 nm/861 km
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Marketing Department (215)245-8860

Manufacturer/Model Agusta A109 MK 11 SP
Total production (all variants) 400 **First flight** 1971
Comments Special purpose aircraft for law enforcement agencies.
Engine(s) (2) Detroit Allison 250 C20B **HP (takeoff)** 740 shp
Dimensions main rotor 36.1 ft/11m **Tail rotor** 6.66 ft/2.03m
Height 10.8 ft/3.29m **Length** 35.1 ft/10.69m **Width** 9.45 ft/2.88m
Empty weight 3,258 lbs/1,478 kg **Gross weight** 5,730 lbs/2,599 kg
Useful load 2,472 lbs/1,120 kg **External** 2,000 lbs/907 kg
Vne 168 kts/311 kmh **Max cruise** 150 kts/278 kmh
Max rate of climb 1,650 fpm/503 mpm
HIGE 7,900 ft/2,408m **HOGE** 4,900 ft/1,494m
Service ceiling 15,000 ft/4,572m **S/E service ceiling** 5,500 ft/1,676m
Std fuel 148 gal/560 lit **Max fuel** 191 gal/723 lit
Max range std fuel (no reserve) 365 nm/676 km
Range with opt fuel 465 nm/861 km
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Business Development (703) 920-4220



Manufacturer/Model Bell Helicopter Textron 205A-1
Total production (all variants) 350+ **First flight** 1967
Comments Currently not in production. External load gross weight = 10,500 lbs (4,762 kg).
Engine(s) (1) Lycoming T5313 B **HP (takeoff)** 1,400 shp
Dimensions main rotor 48 ft/14.6m **Tail rotor** 8.5 ft/2.59m
Height 14.4 ft/4.38m **Length** 57.08 ft/17.4m **Width** 9.3 ft/2.83m
Empty weight 5,323 lbs/2,414 kg **Gross weight** 9,500 lbs/4,309 kg
Useful load 4,177 lbs/1,894 kg **External** 5,000 lbs/2,268 kg
Vne 110 kts/204 kmh **Max cruise** 110 kts/204 kmh
Max rate of climb 1,700 fpm/518 mpm
HIGE 10,400 ft/3,170m **HOGE** 6,000 ft/1,827m
Service ceiling 12,400 ft/2,776m **S/E service ceiling** N/A
Std fuel 215 gal/814 lit **Max fuel** 395 gal/1,495 lit
Max range std fuel (no reserve) 313 nm/580 km @ 5,000 ft (1,523m)
Range with opt fuel 592 nm/1,095 km @ 5,000 ft (1,523m)
VFR Crew 1 **Passengers** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 222
Total production (all variants) 150+ **First flight** 1976
Comments No longer in production. Nine passenger configuration available. Power-limited HIGE-8,000 ft (2,436m) external load gross weight is 8,100 lbs (3,673 kg). Single, dual pilot IFR options available.
Engine(s) (2) Lycoming LTS101-650C-3 **HP (takeoff)** 620 shp ea.
Dimensions main rotor 39.75 ft/12.1m **Tail rotor** 6.5 ft/1.98m
Height 11.25 ft/3.4m **Length** 47.5 ft/14.5m **Width** 11.3 ft/3.44m
Empty weight 4,889 lbs/2,217 kg **Gross weight** 7,850 lbs/3,560 kg
Useful load 2,961 lbs/1,343 kg **External** 2,500 lbs/761 kg
Vne 150 kts/278 kmh **Max cruise** 148 kts/274 kmh
Max rate of climb 1,580 fpm/481 mpm
HIGE 4,200 ft/1,279m **HOGE** 4,600 ft/1,401m
Service ceiling 12,800 ft/3,898m **S/E service ceiling** 5,200 ft/1,583m
Std fuel 187.5 gal/710 lit **Max fuel** 300.5 gal/1,137 lit
Max range std fuel (no reserve) 350 nm/648 km @ 4,000 ft (1,218m)
Range with opt fuel 586 nm/1,086 km @ 4,000 ft (1,218m)
VFR Crew 1 **Passengers** 7
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 222B
Total production (all variants) 150+ **First flight** 1982
Comments Nine passenger configuration available. Power-limited HIGE = 10,400 ft (3,167m). Wheel gear, external load gross weight is 8,400 lbs (3,810 kg). Single-pilot IFR certification w/out augmentation.
Engine(s) (2) Lycoming LTS101-750C-1 **HP (takeoff)** 684 shp ea.
Dimensions main rotor 42 ft/12.8m **Tail rotor** 6.88 ft/2.1m
Height 11.25 ft/3.43m **Length** 50 ft/15.2m **Width** 10.25 ft/3.12m
Empty weight 4,900 lbs/2,222 kg **Gross weight** 8,250 lbs/3,742 kg
Useful load 3,350 lbs/1,519 kg **External** 2,800 lbs/1,270 kg
Vne 150 kts/278 kmh **Max cruise** 149 kts/276 kmh
Max rate of climb 1,460 fpm/445 mpm
HIGE 7,100 ft/2,162m **HOGE** 6,400 ft/1,951m
Service ceiling 15,800 ft/4,811m **S/E service ceiling** 7,500 ft/2,284m
Std fuel 187.5 gal/710 lit **Max fuel** 300.5 gal/1,175 lit
Max range std fuel (no reserve) 324 nm/600 km @ 4,000 ft (1,218m)
Range with opt fuel 532 nm/985 km @ 4,000 ft (1,218m)
VFR Crew 1 **Passengers** 9
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron JetRanger-III 206B-III
Total production (all variants) 4,000+ **First flight** 1977
Comments Vne is 130 kts @ 3,000 lbs and below. External load gross weight is 3,350 lbs.
Engine(s) (1) Allison 250-C20J **HP (takeoff)** 420 shp
Dimensions main rotor 33.33 ft/10.16m **Tail rotor** 5.42 ft/1.65m
Height 9.54 ft/2.91m **Length** 38.79 ft/11.82m **Width** 6.4 ft/1.95m
Empty weight 1,635 lbs/742 kg **Gross weight** 3,200 lbs/1,451 kg
Useful load 1,565 lbs/710 kg **External** 1,500 lbs/680 kg
Vne 122 kts/226 kmh **Max cruise** 118 kts/218 kmh
Max rate of climb 1,280 fpm/390 mpm
HIGE 12,800 ft/3,900m **HOGE** 8,800 ft/2,680m
Service ceiling 13,500 ft/4,115m **S/E service ceiling** N/A
Std fuel 91 gal/344 lit **Max fuel** 91 gal/344 lit
Max range std fuel (no reserve) 398 nm/747 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 **Passengers** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron LongRanger II 206L-1
Total production (all variants) 700+ **First flight** 1977
Comments No longer in production. External load gross weight is 4,250 lbs (1,927 kg). Single-pilot IFR option available.
Engine(s) (1) Allison 250-C28B **HP (takeoff)** 500 shp
Dimensions main rotor 37 ft/11.3m **Tail rotor** 5.42 ft/1.65m
Height 10.3 ft/3.1m **Length** 42.7 ft/13.0m **Width** 7.7 ft/2.34m
Empty weight 2,200 lbs/998 kg **Gross weight** 4,150 lbs/1,882 kg
Useful load 1,950 lbs/884 kg **External** 2,000 lbs/907 kg
Vne 130 kts/241 kmh **Max cruise** 117 kts/215 kmh
Max rate of climb 1,340 fpm/408 mpm
HIGE 12,300 ft/3,745m **HOGE** 5,300 ft/1,614m
Service ceiling 19,000 ft/5,786m **S/E service ceiling** N/A
Std fuel 98 gal/371 lit **Max fuel** 98 gal/371 lit
Max range std fuel (no reserve) 333 nm/616 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 222UT
Total production (all variants) 150+ **First flight** 1983
Comments Ten-place configuration available. Power-limited HIGE = 10,400 ft (3,167m). Skid gear. External load gross weight is 8,400 lbs (3,810 kg). Single-pilot IFR certification without augmentation.
Engine(s) (2) Lycoming LTS 101-750C-1 **HP (takeoff)** 684 shp ea.
Dimensions main rotor 42 ft/12.80m **Tail rotor** 6.88 ft/2.1m
Height 10.42 ft/3.06m **Length** 50 ft/15.2m **Width** 10.25 ft/3.12m
Empty weight 4,874 lbs/2,210 kg **Gross weight** 8,250 lbs/3,742 kg
Useful load 3,376 lbs/1,531 kg **External** 2,800 lbs/1,270 kg
Vne 150 kts/278 kmh **Max cruise** 143 kts/265 kmh
Max rate of climb 1,460 fpm/445 mpm
HIGE 7,100 ft/2,164m **HOGE** 6,400 ft/1,951m
Service ceiling 15,800 ft/4,811m **S/E service ceiling** 7,500 ft/2,284m
Std fuel 246 gal/931 lit **Max fuel** 359 gal/1,359 lit
Max range std fuel (no reserve) 412 nm/763 km @ 4,000 ft (1,218m)
Range with opt fuel 609 nm/1,128 km @ 4,000 ft (1,218m)
VFR Crew 1 **Passengers** 8
Standard avionics One VHF comm plus ICS pannel.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 412
Total production (all variants) 120+ **First flight** 1979
Comments AFCS standard/two-pilot and single-pilot IFR option available. Four seating types available.
Engine(s) (2) P&W PT6T-3B **HP (takeoff)** 900 shp
Dimensions main rotor 46 ft/14.02m **Tail rotor** 8.5 ft/2.59m
Height 15.1 ft/4.6m **Length** 56 ft/17.05m **Width** 9.3 ft/2.83m
Empty weight 6,470 lbs/2,934 kg **Gross weight** 11,900 lbs/5,397 kg
Useful load 5,430 lbs/2,463 kg **External** 11,900 lbs/5,397 kg
Vne 140 kts/259 kmh **Max cruise** 124 kts/230 kmh
Max rate of climb 1,440 fpm/438 mpm
HIGE 1,400 ft/427m **HOGE** N/A
Service ceiling 17,000 ft/5,177m **S/E service ceiling** 7,600 ft/2,314m
Std fuel 330 gal/1,250 lit **Max fuel** 494 gal/1,870 lit
Max range std fuel (no reserve) 402 nm/744 km @ 5,000 ft (1,528m)
Range with opt fuel 600 nm/1,111 km @ 5,000 ft (1,528m)
VFR Crew 1 **Passengers** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron LongRanger-lll 206L-3
Total production (all variants) 700+ **First flight** 1981
Comments External load gross weight is 4,250 lbs. Single-pilot IFR option available. 456 shp trans. rating optionally available.
Engine(s) (1) Allison 250-C30P **HP (takeoff)** 650 shp
Dimensions main rotor 37 ft/11.3m **Tail rotor** 5.42 ft/1.65m
Height 10.25 ft/3.1m **Length** 42.7 ft/10.3m **Width** 7.7 ft/2.34m
Empty weight 2,200 lbs/998 kg **Gross weight** 4,150 lbs/1,882 kg
Useful load 1,950 lbs/884 kg **External** 2,000 lbs/907 kg
Vne 130 kts/241 kmh **Max cruise** 116 kts/215 kmh
Max rate of climb 1,340 fpm/408 mpm
HIGE 16,500 ft/5,024m **HOGE** 5,400 ft/1,644m
Service ceiling 20,000 ft/6,090m **S/E service ceiling** N/A
Std fuel 110 gal/416 lit **Max fuel** 110 gal/416 lit
Max range std fuel (no reserve) 354 nm/655 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 **Passengers** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 212
Total production (all variants) 750+ **First flight** 1970
Comments Vne increases up to 130 kts (241 kmh) as gross weight decreases. Optional IFR available.
Engine(s) (2) P&W PT6T-3B **HP (takeoff)** 900 shp ea.
Dimensions main rotor 48 ft/14.6m **Tail rotor** 8.5 ft/2.59m
Height 4.85 ft/4.53m **Length** 57.25 ft/17.5m **Width** 9.25 ft/2.8m
Empty weight 5,972 lbs/2,708 kg **Gross weight** 11,200 lbs/5,080 kg
Useful load 5,228 lbs/2,371 kg **External** 5,000 lbs/2,268 kg
Vne 100 kts/185 kmh **Max cruise** 109 kts/202 kmh
Max rate of climb 1,320 fpm/404 mpm
HIGE 11,000 ft/3,350m **HOGE** N/A
Service ceiling 14,200 ft/4,324m **S/E service ceiling** 5,000 ft/1,523m
Std fuel 215 gal/814 lit **Max fuel** 395 gal/1,506 lit
Max range std fuel (no reserve) 231 nm/443 km @ 4,000 ft (1,218m)
Range with opt fuel 428 nm/787 km @ 4,000 ft (1,218m)
VFR Crew 1 **Passengers** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 214B/214B-1
Total production (all variants) 400+ **First flight** 1975
Comments No longer in production. External load gross weight = 16,000lbs. 214B-1 is same helicopter with maximum internal gross weight of 12,500 lbs (5,669 kg).
Engine(s) (1) Lycoming T5508D **HP (takeoff)** 2,930 shp
Dimensions main rotor 50 ft/15.2m **Tail rotor** 9.58 ft/3.0m
Height 13.42 ft/4.1m **Length** 60.42 ft/18.4m **Width** 9.33 ft/2.9m
Empty weight 7,655 lbs/3,472 kg **Gross weight** 13,800 lbs/6,620 kg
Useful load 6,145 lbs/2,787 kg **External** 8,000 lbs/3,628 kg
Vne 140 kts/259 kmh **Max cruise** 140 kts/259 kmh
Max rate of climb 1,910 fpm/582 mpm
HIGE 15,000 ft/4,572m **HOGE** 10,500 ft/3,200m
Service ceiling 16,000 ft/4,875m **S/E service ceiling** N/A
Std fuel 204 gal/772 lit **Max fuel** 379 gal/1,434 lit
Max range std fuel (no reserve) 196 nm/363 km @ 5,000 ft (1,523m)
Range with opt fuel 368 nm/682 km @ 5,000 ft (1,523m)
VFR Crew 1 **Passengers** 15
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Bell Helicopter Textron 214ST
Total production (all variants) 50+ **First flight** 1977
Comments Vne at reduced gross weight is up to 160 kts. Standard configuration is IFR-certificated. Air data system, automated power assurance, in-flight blade-tracking.
Engine(s) (2) G.E. CT7-2A **HP (takeoff)** 1,625 shp ea.
Dimensions main rotor 52 ft/15.85m **Tail rotor** 9.67 ft/2.94m
Height 15.4 ft/4.7m **Length** 62.19 ft/18.95m **Width** 9.5 ft/2.89m
Empty weight 9,500 lbs/4,308 kg **Gross weight** 17,500 lbs/7,937 kg
Useful load 8,000 lbs/3,628 kg **External** 8,000 lbs/3,628 kg
Vne 130 kts/241 kmh **Max cruise** 143 kts/265 kmh
Max rate of climb 1,850 fpm/563 mpm
HIGE 6,400 ft/1,949m **HOGE** 1,000 ft/305m
Service ceiling 10,000 ft/3,045m **S/E service ceiling** 4,800 ft/1,462m
Std fuel 435 gal/1,646 lit **Max fuel** 609 gal/2,305 lit
Max range std fuel (no reserve) 457 nm/847 km @ 4,000 ft (1,218m)
Range with opt fuel 657 nm/1,216 km @ 4,000 ft (1,218m)
VFR Crew 2 **Passengers** 18
Standard avionics Dual VHF comm, dual VHF NAV, RNAV, DME, transponder, ADF dual ICS panels, AFCS.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-2222

Manufacturer/Model Boeing Model 234 Long Range (LR)
Total production (all variants) 8 **First flight** 1980
Comments Airline style passenger interior includes: restroom, entertainment system, overhead bins, light refreshment galley, standup head room, gross weight is with internal load.
Engine(s) (2) Lycoming AL5512 **HP (takeoff)** 4,075 shp
Dimensions main rotor 60 ft/18.3m **Tail rotor** N/A
Height 18.6 ft/5.7m **Length** 99 ft/30.2m **Width** 15.7 ft/4.8m
Empty weight 25,900 lbs/11,748 kg **Gross weight** 48,500 lbs/22,000 kg
Useful load 22,600 lbs/10,251 kg **External** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh **Max cruise** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m **HOGE** 2,700 ft/823m @ 48,500 lbs/20,000 kg
Service ceiling 8,500 ft/2,590m **S/E service ceiling** 1,500 ft/457m @ 48,500 lbs/22,000 kg
Std fuel 2,100 gal/7,948 lit **Max fuel** See 234 ER
Max range std fuel (no reserve) 720 nm/1,334 km
Range with opt fuel See 234 ER **IFR Crew** 3 **Passengers** 44
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model Boeing Model 234 Utility (UT)
Total production (all variants) 0 **First flight** 1981
Comments Utility version optimized for external load work. Can also carry cargo/passengers internally. Gross weight is with external load.
Engine(s) (2)Lycoming AL5512 **HP (takeoff)** 4,075 shp
Dimensions main rotor 60 ft/8.3m **Tail rotor** N/A
Height 18.6 ft/5.7m **Length** 99 ft/30.2m **Width** 15.7 ft/4.8m
Empty weight 21,600 lbs/9,798 kg **Gross weight** 51,000 lbs/23,133 kg
Useful load 29,400 lbs/13,336 kg **External** 28,000 lbs/12,700 kg
Vne 140 kts/259 kmh **Max cruise** 140 kts/259 kmh
Max rate of climb 900 fpm/274 mpm
HIGE 7,800 ft/2,377m **HOGE** 2,900 ft/884m @ 51,000 lbs/23,133 kg
Service ceiling 6,800 ft/2,073m **S/E service ceiling** N/A
Std fuel 978 gal/3,702 lit **Max fuel** N/A
Max range std fuel (no reserve) 330 nm/611 km
Range with opt fuel N/A
IFR Crew 2 **Passengers** N/A
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model Boeing Model 234 ER (Extended Range)
Total production (all variants) 2 **First flight** 1983
Comments Two additional cabin fuel tanks increases fuel capacity to 3,078 gal. One tank with 32 seats or two tanks with 18 seats. Retains LR.
Engine(s) (2) Lycoming AL5512 **HP (takeoff)** 4,075 shp
Dimensions main rotor 60 ft/18.3m **Tail rotor** N/A
Height 18.6 ft/5.7m **Length** 99 ft/30.2m **Width** 15.7 ft/4.8m
Empty weight 26,500 lbs/12,020 kg **Gross weight** 48,500 lbs/22,000 kg
Useful load 22,000 lbs/9,979 kg **External** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh **Max cruise** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m **HOGE** 2,700 ft/823m @ 48,500 lbs/22,000 kg
Service ceiling 8,500 ft/2,590m **S/E service ceiling** 1,500 ft/457m
uel 3,078 gal/11,650 lit **Max fuel** N/A
Max range std fuel (no reserve) 1,136 nm/2,105 km
Range with opt fuel N/A
IFR Crew 2/3 **Passengers** 17 with 2 interior fuel tanks, 32 with 1 interior fuel tank.
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model Boeing Model 234 Multipurpose Long Range (MLR)
Total production (all variants) 3 **First flight** 1985
Comments Multipurpose LR is designed for internal/external loads with minimal passenger amenities for 44 passengers.
Engine(s) (2) Lycoming AL5512 **HP (takeoff)** 4,075 shp
Dimensions main rotor 60 ft/18.3m **Tail rotor** N/A
Height 18.6 ft/5.7m **Length** 99 ft/30.2m **Width** 15.7 ft/4.8m
Empty weight 24,500 lbs/11,100 kg **Gross weight** 48,500 lbs/22,000 kg
Useful load 24,000 lbs/10,886 kg **External** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh **Max cruise** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m **HOGE** 2,700 ft/823m @ 48,500 lbs/22,000 kg
Service ceiling 8,500 ft/2,590m **S/E service ceiling** 1,500 ft/457m @ 48,500 lbs/22,000 kg
Std fuel 2,100 gal/7,948 lit **Max fuel** See 234 ER
Max range std fuel (no reserve) 720 nm/1,334 km
Range with opt fuel See 234 ER
IFR Crew 2 **Passengers** 44
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model California Helicopter International S58T
Total production (all variants) 2,300+ **First flight** 1954 (S58) 1970 (S58T)
Comments Available with PT6T-3 or PT6T-6 engines. Information shown is for -6 version.
Engine(s) (2) P&W PT6T-6 Twin Pac **HP (takeoff)** 1,875 shp
Dimensions main rotor 56 ft/17.07m **Tail rotor** 9.5 ft/2.90m
Height 15.92 ft/4.5m **Length** 50.92 ft/15.32m **Width** 5.66 ft/1.73m
Empty weight 7,577 lbs/3,436 kg **Gross weight** 13,000 lbs/5,896 kg
Useful load 5,423 lbs/2,460 kg **External** 5,000 lbs/2,250 kg
Vne 117 kts/216 kmh **Max cruise** 110 kts/204 kmh
Max rate of climb 1,220 fpm/372 mpm
HIGE 10,400 ft/3,170m **HOGE** 6,500 ft/1,981m
Service ceiling 12,800 ft/3,901m **S/E service ceiling** 4,300 ft/1,311m
Std fuel 283 gal/1,071 lit **Max fuel** 433 gal/1,645 lit
Max range std fuel (no reserve) 280 nm/518 km
Range with opt fuel 420 nm/777 km
VFR Crew 1 **Passengers** 18
Standard avionics VHF20, ADF60, VOR, VIR31.
1987 base price ($U.S.) Furnished upon request.
For more information contact California Helicopter (805)644-5800

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Manufacturer/Model E.H. Industries, Ltd./EH 101
Total production (all variants) Under development **First flight** 1987
Comments Joint development/production between Westland Helicopters, Ltd. and Costruzioni Aeronautiche Giovanni Agusta Spa.
Engine(s) (3) GE CT7/6A **HP (takeoff)** 2,000 shp
Dimensions main rotor 61 ft/18.59m **Tail rotor** 13.13 ft/4.0m
Height 17.6 ft/5.35m **Length** 64 ft/19.5m **Width** 14.25 ft/4.34m
Empty weight 19,052 lbs/8,642 kg **Gross weight** 31,500 lb/14,288 kg
Useful load 12,448 lbs/5,642 kg **External** 15,000 lbs/6,804 kg
Vne 167 kts/309 kmh **Max cruise** 150 kts/277 kmh
Max rate of climb 2,200 fpm/670 mpm
HIGE 8,250 ft/2,515m **HOGE** 3,500 ft/1,067m
Service ceiling 15,000 ft/4,572m **S/E service ceiling** 12,900 ft/3,932m
Std fuel 348 gal/1,318 lit **Max fuel** 454 gal/1,719 lit
Max range std fuel (no reserve) 690 nm/1,277 km
Range with opt fuel 830 nm/1,537 km
VFR Crew 2 + 1 attendant **Passengers** 30
Standard avionics 4-axis automatic flight control system plus full EFIS cockpit.
1987 base price ($U.S.) TBA
For more information contact Ray Procter 0344-481717 (UK)
John Leverton (703) 486-8000 (USA)

Manufacturer/Model Enstrom Helicopter Corporation Model F-28F
Total production (all variants) 48 **First flight** 1980
Comments Enstrom's emphasis on product support and the operator's needs is reflected in the 225 hp "F" series, which provides 2,350 lb gross weight. HIGE capabilities on an ISA + 30 degree day at 9,400 ft. Now with new stabilizers and doors (design).
Engine Lycoming HIO-360-F1ADw/Rayjayturbo **HP(continuous)** 225
Dimensions main rotor 32 ft/9.75m **Tail rotor** 4.78 ft/1.45m
Height 9 ft/2.74m **Length** 29.3 ft/8.9m **Width** 7.5 ft/2.29m
Empty weight 1,550 lbs/703 kg **Gross weight** 2,600 lbs/1,180 kg
Useful load 1,050 lbs/476 kg **External** 1,000 lbs/453.6 kg
Vne 97 kts/180 kmh (SL to 915m) **Max cruise** 97 kts/180 kmh
Max rate of climb 1,450 fpm/440 mpm
HIGE 13,200 ft/4,023m **HOGE** 8,700 ft/2,650m @ 2,350 lbs
HIGE 7,800 ft/2,375m @ 2,600 lbs
Service ceiling 12,000 ft/3,650m (max. op. alt.) **S/E service ceiling** N/A
Std fuel 40 gal/151 lit **Max fuel** 52.7 gal/200 lit
Max range std fuel (no reserve) 228 nm/423 km
Range with opt fuel 313 nm/580 km **VFR Crew** 1 **Passengers** 2
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $168,700
For more information contact Richard E. Loynachan (906)863-9971

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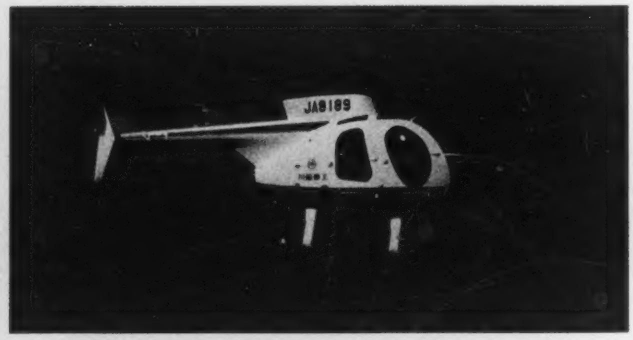
Manufacturer/Model Enstrom Helicopter Corporation Model 280FX
Total production (all variants) 12 **First flight** 1984
Comments T.C. Jan. 1985. Basic 280 series with new stabilizers, landing gear fairings, tail rotor driveshaft cover, restyled air inlet system, tail rotor guard.
Engine(s) (1) TurboLycoming HIO-360-F1AD **HP (continuous)** 225 shp
Dimensions main rotor 32.0 ft/9.75m **Tail rotor** 4.8 ft/1.46m
Height 9.3 ft/2.83m **Length** 27.8 ft/8.45m **Width** 7.5 ft/2.29m
Empty weight 1,570 lbs/711 kg **Gross weight** 2,600 lbs/1,180 kg
Useful load 1,030 lbs/466 kg **External** 1,000 lbs/453 kg
Vne 101 kts/188 kmh **Max cruise** 101 kts/188 kmh
Max rate of climb 1,450 fpm/440 mpm
HIGE 13,200 ft/4,023m **HOGE** 8,700 ft/TBA ft/2,650m @ 2,350 lbs
Service ceiling 12,000 ft/3,650m (max. op. alt.) **S/E service ceiling** N/A
Std fuel 42 gal/159 lit **Max fuel** N/A
Max range std fuel (no reserve) 260 nm/345 km
Range with opt fuel N/A
VFR Crew 1 **Passengers** 2
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) $188,900
For more information contact Richard E. Loynachan (906)863-9971

Manufacturer/Model Rogerson Hiller Corporation UH12E
Total production (all variants) 1000+ **First flight** 1958
Comments None.
Engine(s) (1) Lycoming VO 540-C2A **HP (takeoff)** 340 shp
Dimensions main rotor 35.40 ft/10.78m **Tail rotor** 5.50 ft/1.67m
Height 10.08 ft/3.07m **Length** 28.5 ft/8.68m **Width** 4.9 ft/1.5m
Empty weight 1,759 lbs/797.87 kg **Gross weight** 3,100 lbs/1,406.14 kg
Useful load 1,341 lbs/608.27 kg **External** 1,000 lbs/453.59 kg
Vne 96 kts/177.79 kmh **Max cruise** 78 kts/144.46 kmh
Max rate of climb 1,290 fpm/193.19 mpm
HIGE 10,400 ft/3,169.92m **HOGE** 6,800 ft/2,072.64m
Service ceiling 15,000 ft/4,572m **S/E service ceiling** N/A
Std fuel 46 gal/174.13 lit **Max fuel** 86 gal/325.55 lit
Max range std fuel (no reserve) 210 nm/389 km
Range with opt fuel 405 nm/750 km
VFR Crew 1 **Passengers** 2
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Victor Milner (714)660-0666

Manufacturer/Model Rogerson Hiller Corporation RH1100C
Total production (all variants) 250 **First flight** 1962
Comments None.
Engine(s) (1) Allison 250-C20B **HP (takeoff)** 420 shp
Dimensions main rotor 35.41 ft/10.79m **Tail rotor** 6 ft/1.83m
Height 9.08 ft/2.77m **Length** 28.37 ft/8.65m **Width** 4.34 ft/1.32m
Empty weight 1,500 lbs/680.39 kg **Gross weight** 2,850 lbs/1,292.74 kg
Useful load 1,335 lbs/604.75 kg **External** 1,250 lbs/566.99 kg
Vne 127 kts/235.2 kmh **Max cruise** 127 kts/235.2 kmh
Max rate of climb 1,600 fpm/487.68 mpm
HIGE 17,000 ft/5,181.60m **HOGE** 12,000 ft/3,657.6m
Service ceiling 17,300 ft/5,273m **S/E service ceiling** N/A
Std fuel 68.5 gal/259.30 lit **Max fuel** 108.5 gal/410.72 lit
Max range std fuel (no reserve) 390 nm/739 km
Range with opt fuel 635 nm/1,176 km
VFR Crew 1 **Passengers** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Victor Milner (714)660-0666

Manufacturer/Model Hynes Aviation Industries, Inc. Model H2
Total Production (all variants) 720 **First Flight** 1956
Comments Military specification trainer and patrol helicopter also available on floats and as IFR trainer and with AG equipment, uses unique two section three bladed main rotor system.
Engine(s) Lycoming IVO-360-A1A **HP(takeoff)** 180 (134KW)
Dimensions Main rotor 23.7 ft/7.3m **Tail rotor** 4.3 ft/1.3m
Height 6.8 ft/2.1m **Length** 28.0ft/8.6m **Width** 5.8 ft/1.7m
Empty weight 1,020 lbs/463 kg **Gross weight** 1,670 lbs/757 kg
Useful Load 650 lbs/296 kg **External** 400 lbs/182 kg
Vne 85 kts/160 kmh **Max Cruise** 80 kts/145 kmh
Max rate of climb 1,900fpm/580mpm **HIGE** 6,700ft/2,040 **HOGE** N/A
Service ceiling 10,800 ft/3,290m **S/E service ceiling** N/A
Std fuel 31 gal/117 lit **Max fuel** 40 gal/150 lit
Max range std fuel(no reserve) 217 nm/400 km
Range with opt fuel 289 nm/530 km
VFR Crew 1 **Passengers** 1
Standard avionics none, optional factory installed avionics available
1987 base price ($U.S.) 89,450
For more information contact Michael K. Hynes, (405) 335-7511

Manufacturer/Model Hynes Aviation Industries, Inc. Model H5
Total production (all variants) 49 **First flight** 1964
Comments Military specification helicopter. Also used for U.S. Army Model H5T drone, remote controlled helicopter. Available on wheels, skids or floats. Uses unique two section, three bladed main rotor system. IFR trainer and AG models available
Engine Lycoming IVO-540-AIA **HP(takeoff)** 305 hp/227.5 kw
Dimensions Main rotor 28.0 ft/8.6m **Tail rotor** 4.3 ft/1.3m
Height 8.0 ft/2.5m **Length** 33.0 ft/10.0m **Width** 7.0 ft/2.2m
Empty weight 1,800 lbs/817 kg **Gross weight** 2,900 lbs/1,315 kg
Useful Load 1,100 lbs/500 kg **External** 800 lbs/365 kg
Vne 104 kts/193 kmh **Max Cruise** 96 kts/177 kmh
Max rate of climb 975fpm/297mpm **HIGE** 4,080 ft/1,245 **HOGE** N/A
Service ceiling 12,000 ft/3,660m **S/E service ceiling** N/A
Max range std fuel(no reserve) 250 nm/215 km
Range with opt fuel 375 nm/320 km
VFR Crew 1 **Passengers** 1
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) 159,000
For more information contact Michael K. Hynes, (405) 335-7511



Manufacturer/Model Kawasaki Heavy Industries, Ltd./ Kawasaki-Hughes H500 series
Total production (all variants) 306 **First flight** 1967
Comments Manufactured under license from Hughes Helicopter. A lightweight high performance 5 seat helicopter.
Engine(s) (1) D.D. Allison 250-C20B (D model) **HP (takeoff)** 420 shp
Dimensions main rotor 26.42 ft/8.05m **Tail rotor** 4.58 ft/1.40m
Height 8.94 ft/2.72m **Length** 30.5 ft/9.30m **Width** 6.79 ft/2.07m
Empty weight 1,369 lbs/621 kg **Gross weight** 3,000 lbs/1,361 kg
Useful load 1,631 lbs/740 kg **External** 2,181 lbs/989 kg
Vne 152 kts/282 kmh **Max cruise** 139 kts/258 kmh
Max rate of climb 1,875 fpm/572 mpm
HIGE 8,500 ft/2,591m **HOGE** 7,400 ft/2,256m
Service ceiling 14,700 ft/4,481m **S/E service ceiling** N/A
Std fuel 64 gal/242 lit **Max fuel** N/A
Max range std fuel (no reserve) 260 nm/481 km
Range with opt fuel N/A
VFR Crew 1 **Passengers** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Maomi Yakushiji (03) 435-2495

Manufacturer/Model Kawasaki Heavy Industries, Ltd./BK117 A-4
Total production (all variants) 14 **First flight** 1979
Comments A true multi-purpose light-twin helicopter jointly developed by Kawasaki and MBB of West Germany. Safety, reliability and versatility are the prime design objectives.
Engine(s) (2) Avco-Lycoming LTS101-650B-1 **HP (takeoff)** 550 shp ea.
Dimensions main rotor 36.09 ft/11m **Tail rotor** 6.42 ft/1.956m
Height 11.02 ft/3.36m **Length** 42.65 ft/13m **Width** 8.86 ft/2.70m
Empty weight 3,660 lbs/1,660 kg **Gross weight** 7,056 lbs/3,200 kg
Useful load 3,396 lbs/1,540 kg **External** N/A
Vne 150 kts/278 kmh **Max cruise** 134 kts/248 kmh
Max rate of climb 1,900 fpm/582 mpm
HIGE 4,900 ft/1,490m (17kt cross wind) **HOGE** 5,900 ft/1,800m
Service ceiling 15,000 ft/4,572m @ 3,000 kg **S/E service ceiling** 4,200 ft/1,280m
Std fuel 158 gal/598 lit **Max fuel** 240 gal/910 lit
Max range std fuel (no reserve) 261nm/484km (at best range speedS/L)
Range with opt fuel 401 nm/742 km, S/L
(The above data are based on 3,200 kg gross weight except stated).
VFR Crew 1 **Passengers** 10 **Standard avionics** 1 VHF (CollinsVHF-251).
1987 base price ($U.S.) N/A
For more information contact Maomi Yakushiji (03) 435-2495

Manufacturer/Model Kawasaki Heavy Industries, Ltd./Kawasaki Bell 47/G3B-KH4
Total production (all variants) 439 **First flight** 1961 (KH4)
Comments Manufactured under the license from Bell Helicopter. KH4 was a modified version of 47G3B to accommodate one crew and three passengers, and the best seller in Japan.
Engine(s) (1) Avco-Lycoming TVO-435 **HP (takeoff)** 260 shp
Dimensions main rotor 37.13 ft/11.32m **Tail rotor** 5.84 ft/1.78m
Height 9.3 ft/2.84m **Length** 43.63 ft/13.3m **Width** 9.46 ft/2.88m
Empty weight 1,850 lbs/839 kg **Gross weight** 2,850 lbs/1,293 kg
Useful load 1,000 lbs/454 kg **External** 1,000 lbs/454 kg
Vne 91 kts/168 kmh **Max cruise** 75 kts/139 kmh (5,000 ft)
Max rate of climb 850 fpm/259 mpm
HIGE 18,000 ft/5,486m **HOGE** 15,000 ft/4,572m
Service ceiling 18,500 ft/5,639m **S/E service ceiling** N/A
Std fuel 53 gal/201 lit **Max fuel** N/A
Max range std fuel (no reserve) 214 nm/397 km (5,000 ft)
Range with opt fuel N/A
VFR Crew 1 **Passengers** 3
Standard avionics None.
1987 base price ($U.S.) Out of production.
For more information contact Maomi Yakushiji (03) 435-2495

Manufacturer/Model Kawasaki-Boeing KV107IIA
Total production (all variants) 143 **First flight** 1962
Comments Kawasaki-built KV107's are operated by the Japan Self-Defense Forces, Tokyo Police, Airlift Corp., (Japan), Columbia Helicopters,
(U.S.), the Royal Swedish Navy, & the Ministry of Interior, Saudi Arabia.
Engine(s) (2) CT58-140-1 or CT58-IHI-140-1 **HP (takeoff)** 1,400 shp
Dimensions main rotor 50 ft/15.24m **Tail rotor** N/A
Height 16.10 ft/5.13m **Length** 83.4 ft/25.40m **Width** 14.6 ft/4.42m
Empty weight 11,570 lbs/5,248 kg **Gross weight** 19,000 lbs/8,618 kg
Useful load 7,430 lbs/3,370 kg **External** 7,430 lbs/3,370 kg
Vne 146 kts/270 kmh **Max cruise** 135 kts/250 kmh
Max rate of climb 2,000 fpm/610 mpm
HIGE 12,000 ft/3,810m **HOGE** 9,000 ft/2,743m
Service ceiling 18,000 ft/5,486m **S/E service ceiling** 5,700 ft/1,740m
Std fuel 350 gal/1,325 lit **Max fuel** N/A
Max range std fuel (no reserve) 238 nm/441 km
Range with opt fuel N/A **VFR Crew** 3 **Passengers** 25
Standard avionics ADF, Gyro compass, transponder, VHF, ICS, SAS AST.
1987 base price ($U.S.) N/A
For more information contact International Sales (03) 435-2461
Telex: 242-4371

Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO 105 CB
Total production (all variants) 1,200 **First flight** 1967 of B0 105C making it the 1st light twin. In 1975 the new and current engine was installed and the name changed to the BO 105CB.
Comments World's first light, twin-engine helicopter. Featuring rear-loading clamshell doors and the Boelkow hingeless rotor system, the BO 105 has proven successful in executive transport, offshore, public service and EMS uses.
Engine(s) (2) Allison 250-C20B **HP (takeoff)** 420 shp
Dimensions main rotor 32.35 ft/9.84m **Tail rotor** 6.17 ft/1.9m
Height 9.08 ft/3m **Length** 38.09 ft/11.8m **Width** 8.35 ft/2.53m
Empty weight 2,780 lbs/1,261 kg **Gross weight** 5,291 lbs/2,400 kg
Useful load 2,511 lbs/1,139 kg **External** 1,984 lbs/900 kg **Vne** 145 kts/270 kmh **Max cruise** 131 kts/242 kmh **Max rate of climb** 1,476 fpm/450 mpm **HIGE** 7,600 ft/2,030m **HOGE** 5,300 ft/1,620m
Service ceiling 17,000 ft/5,180m **S/E service ceiling** 2,920 ft/890m
Std fuel 151.3 gal/572.9 lit **Max fuel** 256.7 gal/969 lit **Max range std fuel (no reserve)** 310 nm/575 km **Range with opt fuel** 540 nm/1,000 km
VFR Crew 1 **Passengers** 4 **Standard avionics** None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 389

Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO 105 CBS
Total production (all variants) 1,200 **First flight** 1975 (stretched version)
Comments BO 105 CBS is the stretched version of the successful BO 105 model helicopter, with a cabin area of 130 cubic feet of continuous space.
Engine(s) (2) Allison 250-C20B **HP (takeoff)** 420 shp
Dimensions main rotor 32.35 ft/9.84m **Tail rotor** 6.17 ft/1.9m
Height 9.08 ft/3m **Length** 38.09 ft/11.8m **Width** 8.35 ft/2.53m
Empty weight 2,780 lbs/1,261 kg **Gross weight** 5,511 lbs/2,500 kg
Useful load 2,643 lbs/1,199 kg **External** 1,984 lbs/900 kg
Vne 145 kts/270 kmh **Max cruise** 131 kts/242 kmh
Max rate of climb 1,375 fpm/420 mpm (mcp)
HIGE 5,000 ft/1,524m(max gr. wt) **HOGE** 1,500 ft/460 m(max gr. wt)
Service ceiling 17,000 ft/5,180m **S/E service ceiling** 2,920 ft/890m
Std fuel 153 gal/580 lit **Max fuel** 258 gal/980 lit
Max range std fuel (no reserve) 310 nm/575 km
Range with opt fuel 540 nm/1,000 km
VFR Crew 1 Passengers 5 **Max op. alt.** 10,000 ft/3,048m (mgw)
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 389

Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO105LS A-3
Total production (all variants) N/A **First flight** 1981 (LS version)
Comments The most powerful production light twin engine helicopter, with outstanding performance in hot environments and at high density altitudes.
Engine(s) (2) Allison 250-C28C **HP (takeoff)** 550 shp
Dimensions main rotor 32.35 ft/9.84m **Tail rotor** 6.17 ft/1.9m
Height 9.08 ft/3.0m **Length** 38.09 ft/11.8m **Width** 8.35 ft/2.53m
Empty weight 3,153 lbs/1,430 kg **Gross weight** 5,732 lbs/2,600 kg
Useful load 2,579 lbs/1,170 kg **External** 2,200 lbs/1,000 kg
Vne 145 kts/269 kmh **Max cruise** 132 kts/244 kmh
Max rate of climb 1,820 fpm/555 mpm (2,080 fpm w/5,291 gr. wt)
HIGE 11,500 ft/3,500m **HOGE** 8,370 ft/2,550m
S/E service ceiling 5,900 ft/1,800 m
Std fuel 150 gal/567.8 lit **Max fuel** N/A
Max range std fuel (no reserve) 278 nm/515 km
Range with opt fuel N/A
VFR Crew 1 **Passengers** 5 **Max. op. alt.** 20,000 ft./6,100 (mgw)
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215) 431-4150, Ext. 389

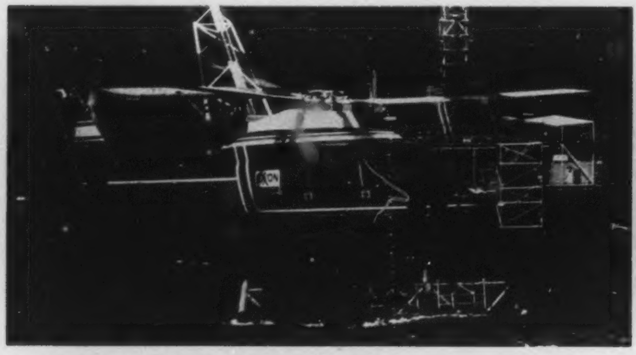
Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BK 117 B-1
Total production (all variants) 135 **First flight** 1987
Comments Medium, twin-engine multipurpose helicopter with 200 cubic feet of continuous cabin space. It incorporates the proven technology found in the BO 105.
Engine(s) (2) Lycoming LTS-101-750 B1 **HP (takeoff)** 550 shp ea.
Dimensions main rotor 36.09 ft/11m **Tail rotor** 6.29 ft/1.92m
Height 11.02 ft/3.36m **Length** 32.74 ft./9.98m **Width** 8.17 ft/2.5m
Empty weight N/A **Gross weight** 7,056 lbs/3,207 kg
Useful load 3,417 lbs/1,557 kg **External** N/A
Vne 150 kts/278 kmh **Max cruise** 136 kts/251 kmh
Max rate of climb 1,910 fpm/582 mpm
HIGE 9,600 ft/2,930m **HOGE** 7,500 ft/2,290m
Service ceiling 15,000 ft/4,572m (approx 6614 gw)
S/E service ceiling 5,800 ft/1,770m (150 fpm climb reserve)
Std fuel 183 gal/891 lit **Max fuel** 235 gal/1,091 lit
Max range std fuel (no reserve) 308 nm/570 km
Range with opt fuel 400 nm/740 km
VFR Crew 1 **Passengers** 9
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 389

Manufacturer/Model McDonnell Douglas Helicopter Company 500E
Total production (all variants) 3,750 **First flight** 1982
Comments The 500E is the latest version of the Model 500 series which began in 1962 with the US Army OH-6A. It incorporates important changes in comfort and styling recommended by the customer.
Engine (1) Allison 250-C20B **HP (takeoff)** 375 shp/max contin. 350 shp
Dimensions main rotor 26.4 ft/8.04m **Tail rotor** 4.6 ft/1.4m
Height 8.7 ft/2.66m **Length** 30.8 ft/9.39m **Width** 6.5 ft/1.97m
Empty weight 1,441 lbs/654 kg **Gross weight** 3,000 lbs/1,361 kg
Useful load 1,559 lbs/707 kg **External** 2,000 lbs/907 kg
Vne 175 mph/282 kmh **Max cruise** 169 mph/272 kmh
Economic cruise speed 143 mph/230 kph. Sea level true air speed.
Max rate of climb 3,240 fpm/16.5 m/sec. Sea level, takeoff power.
HIGE 8,500 ft/2,591m **HOGE** 6,000 ft/1,859m (max gr wt)
Service ceiling 14,700 ft/4,418+ m **S/E service ceiling** N/A
Std fuel 64 gal/242 lit 403 lbs/183 kg **Opt fuel** 21 gal 132 lbs/60 kg
Max range std fuel (no reserve) 367 nm/590 km (5,000 ft) **Range with opt fuel** 506.5 nm/815 km **Fuel Flow** 28 gph/106 liters/hour **VFR Crew** 1 **Passengers** 4 **Standard avionics** None. Optional factory installed avionics available. **1987 base price ($U.S.)** $450,000
For more information contact North America: Clark Wirthlin(602) 891-5504 International: Max Wiley (602) 891-5505

Manufacturer/Model McDonnell Douglas Helicopter Company 530F
Total production (all variants) 75 **First flight** 1982
Comments Hot day/high altitude version of Model 500 series
Incorporates all features of 500E plus larger rotors, high gross weight.
Engine(s) (1) Allison 250-C30 **HP (takeoff)** 425 shp/max contin. 350 shp
Dimensions main rotor 27.4 ft/8.34m **Tail rotor** 4.8 ft/1.45m
Height 8.6 ft/2.62m **Length** 32.1 ft/9.77m **Width** 6.5 ft/1.97m
Empty weight 1,564 lbs/709 kg **Gross weight** 3,100 lbs/1,406 kg
Useful load 1,536 lbs/697 kg **External** 2,000 lbs/907 kg
Vne 175 mph/282 kmh **Max cruise** 155 mph/250 kmh
Economic Cruise Speed 150 mph/241 kmh. Sea level true air speed.
Max rate of climb 2,100 fpm/10.6 mps. Sea level, takeoff power.
HIGE 14,200 ft/4,328m **HOGE** 12,000 ft/3,568m
Service ceiling 16,000 ft/4,877m **S/E service ceiling** N/A
Std fuel 64 gal/242 lit 403 lbs/183 kg **Max fuel 115 gal/435 lit**
Opt fuel 21 gal 136.5 lbs/61.5 kg **Max range std fuel (no reserve)** 275 st mi/443 km (5,000 ft) **Range with opt fuel** 379.5 st mi/610 km
Fuel Flow 34 gph./128.7 lit./hr. **VFR Crew** 1 **Passengers** 4
Standard avionics None. Optional factory installed avionics available
1987 base price ($U.S.) $625,000
For more informtation contact North America:
L. Clark Writhlin (602)891-5504 International: Max Wiley (602) 891-5505

Manufacturer/Model Robinson R22 Beta
Total production (all variants) 720 **First flight** 1975
Comments Top selling piston helicopter used for powerline patrol, flight training, herding, TV & feature filming, traffic watch, photography, law enforcement, construction & oil industry support, executive & personal transport, fish spotting.
Engine(s) (1) Lycoming 0-320-B2C **HP (takeoff)** 160 hp derated to 131 hp
Dimensions main rotor 25.2 ft/7.7m **Tail rotor** 3.5 ft/1.1m
Height 8.75 ft/2.7m **Length** 28.75 ft/8.8m **Width** 6.33 ft/1.9m
Empty weight 824 lbs/374 kg **Gross weight** 1,370 lbs/621 kg
Useful load 546 lbs/248 kg **External** None
Vne 102 kts/189 kmh **Max cruise** 96 kts/178 kmh
Max rate of climb 1,000 fpm/305 mpm
HIGE 6,970 ft/2,124m **HOGE** 5,200 ft
Service ceiling 14,000 ft/4,267m **S/E service ceiling** N/A
Std fuel 19.2 gal/72.7 lit **Max fuel** 29.7 gal
Max range std fuel (no reserve) 209 nm/386.3 km
Range with opt fuel 323 nm/598.2 km
VFR Crew 1 **Passengers** 1
Standard avionics King KY 197 COMM transceiver with intercom.
1987 base price ($U.S.) $91,850 includes dual controls, rotor brake, night lights and rate-of-climb.
For more information contact Barbara K. Robinson (213) 539-0508

Manufacturer/Model Schweizer Aircraft Corp. Hughes Model 300C
Total production (all variants) 2,700+ **First flight** 1971
Comments The 300C is the latest version of the Model 300 series which began in 1956 and is being build by Schweizer Aircraft (a Hughes licensee) in Elmira, New York.
Engine(s) (1) Lycoming HIO-360-D1A **HP (takeoff)** 190 hp
Dimensions main rotor 26.84 ft/8.18m **Tail rotor** 4.25 ft/1.30m
Height 8.75 ft/2.67m **Length** 22.2 ft/6.76m **Width** 6.54 ft/1.99m
Empty weight 1,100 lbs/499 kg **Gross weight** 2,050 lbs/930 kg
Useful load 950 lbs/431 kg **External** 1,050 lbs/476 kg
Vne 91 kts/169 kmh **Max cruise** 83 kts/154 kmh (4,000 ft)
Max rate of climb 750 fpm/229 mpm at gross weight
HIGE 6,000 ft/1,829m **HOGE** 2,700 ft/823m
Service ceiling 10,200 ft/3,109m **S/E service ceiling** N/A
Std fuel 30 gal/113 lit **Max fuel** 49 gal/185 lit
Max range std fuel (no reserve) 230 nm/426 km (4,000 ft)
Range with opt fuel 376 nm/6,197 km (4,000 ft)
VFR Crew 1 **Passengers** 2
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $139,500
For more information contact Larry A. Brooks (607)739-3821



Manufacturer/Model Sikorsky S-76A MKII
Total production (all variants) 317 **First flight** 1977
Comments None.
Engine(s) (2) Allison 250-C30S **HP (takeoff)** 650 shp ea.
Dimensions main rotor 44 ft/13.41m **Tail rotor** 8 ft/2.44m
Height 14.48 ft/4.41m **Length** 52.5 ft/16.0m **Width** 10 ft/3.05m
Empty weight 5,930 lbs/2,689 kg **Gross weight** 10,500 lbs/4,763 kg
Useful load 4,570 lbs/2,073 kg **External** 3,300 lbs/1,497 kg
Vne 155 kts/287 kmh **Max cruise** 145 kts/268 kmh
Max rate of climb 1,640 fpm/8.33 m/sec.
HIGE 2,450 ft/747m **HOGE** 1,400 ft/427m
Service ceiling 14,200 ft/4,328m **S/E service ceiling** 4,460 ft/1,359m
Std fuel 281 gal/1,064 lit **Max fuel** 387 gal/1,463 lit
Max range std fuel (no reserve) 475 nm/880 km @ 125 kts
Range with opt fuel 669 nm/1,239 km @ 125 kts
VFR Crew 1 **Passengers** 13
Standard avionics Collins VHF Comm.
1988 base price ($U.S.) $2,550,000
For more information contact Warren Drury (203)381-6083

Manufacturer/Model Sikorsky S-70C
Total production (all variants) 1036 **First flight** 1978
Comments Commercial variant of the H-60 "HAWK" Series.
Engine(s) (2) G.E. CT7-2C **HP (takeoff)** 1,565 hp
Dimensions main rotor 53.9 ft/16.4m **Tail rotor** 11 ft/3.4m
Height 16.8 ft/5.1m **Length** 50.1 ft/15.3m **Width** 7.8 ft/2.4m
Empty weight 10,158 lbs/4,608 kg **Gross weight** Design 16,825 lbs/7,623 kg Max 22,000 lbs/9,979 kg
Useful load 11,842 lbs/5,371 kg **External** 8,000 lbs/3,629 kg
Vne 193 kts/358 kmh **Max cruise** 162 kts/300 kmh
Max rate of climb 2,770 fpm/844 mpm
HIGE 14,200 FT/4,329m **HOGE** 9,950 ft/3,033m
Service ceiling 19,000 ft/5,971m **S/E service ceiling** 10,100 ft/3,079m
Std fuel 362 gal/1,370 lit **Max fuel** 362 gal/1,370 lit
Max range std fuel (no reserve) 350 nm/648 km @ 145 kts/269 kmh
Range with opt fuel N/A
VFR Crew 2 **Passengers** 19
Standard avionics AFCS including attitude and airspeed hold.
1987 base price ($U.S.) Furnished upon request.
For more information contact Warren Drury (203)381-6083

Manufacturer/Model Sikorsky S-76B
Total production (all variants) 317 **First flight** 1977
Comments Enhanced hot high performance over S-76A.
Engine(s) (2) P&W PT6B-36 **HP (takeoff)** 981 shp ea.
Dimensions main rotor 44 ft/13.41m **Tail rotor** 8 ft/2.44m
Height 14.48 ft/4.41m **Length** 52.5 ft/13.21m **Width** 10 ft/3.05m
Empty weight 6,656 lbs/3,019 kg **Gross weight** 11,400 lbs/5,171 kg
Useful load 4,744 lbs/2,151 kg **External** N/A
Vne 155 kts/287 kmh **Max cruise** 145 kts/268 kmh
Max rate of climb N/A
HIGE 8,300 ft/2,530m **HOGE** 5,000 ft/1,524m
Service ceiling 15,000 ft/4,572m **S/E service ceiling** 4,500 ft/1,372m
Std fuel 281 gal/1,064 lit **Max fuel** 331 gal/1,252 lit
Max range std fuel (no reserve) 397 nm/736 km @ 3,000 ft, 130 kts
Range with opt fuel 473 nm/876 km @ 3,000 ft, 130 kts
VFR Crew 1 **Passengers** 13
Standard avionics Collins VHF Comm.
1988 base price ($U.S.) $3,240,000
For more information contact Warren Drury (203)381-6083

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Manufacturer/Model Soloy Conversions, Soloy-Hiller UH12E
Total production (all variants) 317 **First flight** 1974
Comments Conversions for the Hiller UH12D and E models to turbine power. Combines features of Hiller with the Allison 250-C20B powerplant
providing significant performance benefits.
Engine(s) (1) Allison 250-C20B **HP (takeoff)** 305 shp
Dimensions main rotor 35.33 ft/10.77m **Tail rotor** 5.55 ft/1.69m
Height 10.08 ft/3.07m **Length** 28.42 ft/8.66m **Width** 4.9 ft/1.5m
Empty weight 1,650 lbs/748 kg **Gross weight** 3,100 lbs/1,406 kg
Useful load 1,450 lbs/658 kg **External** 1,200 lbs/544 kg
Vne 84 kts/155.57 kmh **Max cruise** 78 kts/144.46 kmh
Max rate of climb 1,706 fpm/420 mpm
HIGE 11,300 ft/3,444m **HOGE** 8,700 ft/2,642m
Service ceiling 14,000 ft/4,267m **S/E service ceiling** N/A
Std fuel 46 gal/174.13 lit **Max fuel** 86 gal/325.55 lit
Max range std fuel (no reserve) 159 nm/255 km
Range with opt fuel 274 nm/507 km
VFR Crew 1 **Passengers** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Soloy Conversions, Ltd. (206) 754-7000

Manufacturer/Model Soloy Conversions, Soloy-Hiller UH12E4
Total production (all variants) 12 **First flight** 1974
Comments Conversions for the Hiller UH12D and E models to turbine power. Combines features of Hiller with the Allison 250-C20B powerplant
providing significant performance benefits.
Engine(s) (1) Allison 250-C20B **HP (takeoff)** 305 shp
Dimensions main rotor 35.33 ft/10.77m **Tail rotor** 5.55 ft/1.69m
Height 10.08 ft/3.07m **Length** 28.9 ft/8.8m **Width** 4.9 ft/1.5m
Empty weight 1,727 lbs **Gross weight** 3,100 lbs/1,406 kg
Useful load 1,373 lbs **External** 1,200 lbs/544 kg
Vne 84 kts/155.57 kmh **Max cruise** 78 kts/144.46 kmh
Max rate of climb 1,463 fpm/466 mpm
HIGE 11,300 ft/3,444m **HOGE** 8,700 ft/2,652m
Service ceiling 14,000 ft/4,267m **S/E service ceiling** N/A
Std fuel 46 gal/174.13 lit **Max fuel** 86 gal/325.55 lit
Max range std fuel (no reserve) 159 nm/255 km
Range with opt fuel 274 nm/507 km
VFR Crew 1 **Passengers** 3
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Soloy Conversions, Ltd. (206)754-7000
TWX 510-785-0241

Manufacturer/Model Soloy Conversions, Soloy/Bell 47 (600 Series)
Total production (all variants) 160 **First flight** 1976
Comments Eleven models of the Bell 47G are convertible on Type Certificate 2H3. The conversion allows operators the benefits of tubine power at a reasonable cost. Data for 600 series shown.
Engine(s) (1) Allison 250-C20B **HP (takeoff)** 265 shp
Dimensions main rotor 35.1 ft/10.5m **Tail rotor** 5.10 ft/1.75m
Height 9.3 ft/2.78m **Length** 43.2 ft/12.96m **Width** 7.5 ft/2.28m
Empty weight 1,570 lbs/705.5 kg **Gross weight** 2,950 lbs/1,327.5 kg
Useful load 1,380 lbs/621 kg **External** 1,200 lbs/540 kg
Vne 91.5 kts/169 kmh **Max cruise** 91.5 kts/169 kmh
Max rate of climb 1,250 fpm/375 mpm
HIGE 16,000 ft/4,877m **HOGE** 14,000 ft/4,267m
Service ceiling 16,000 ft/4,877m **S/E service ceiling** N/A
Std fuel 57.5 gal/218.5 lit **Max fuel** 97.5 gal/369 lit
Max range std fuel (no reserve) 230 nm/426 km
Range with opt fuel 410 nm/759 km
VFR Crew 1 **Passengers** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Soloy Conversions, Ltd (206)754-7000
TWX 510-785-0241

Manufacturer/Model Soloy Conversions, Soloy/Bell 47 (900 Series)
Total production (all variants) 23 **First flight** 1976
Comments Eleven models of the Bell 47G are convertible on Type Certificate 2H3. The conversion allows operators the benefits of turbine power at a reasonable cost. Data for 900 Series shown.
Engine(s) (1) Allison 250-C20B **HP (takeoff)** 275 shp
Dimensions main rotor 35.1 ft/10.5m **Tail rotor** 5.10 ft/1.75m
Height 9.3 ft/2.78m **Length** 43.2 ft/12.96m **Width** 7.5 ft/2.28m
Empty weight 1,570 lbs/705.5 kg **Gross weight** 3,200 lbs/1,440 kg
Useful load 1,630 lbs/733.5 kg **External** 1,200 lbs/540 kg
Vne 91.5 kts/169 kmh **Max cruise** 91.5 kts/169 kmh
Max rate of climb 1,250 fpm/375 mpm
HIGE 16,000 ft/4,877m **HOGE** 14,600 ft/4,450m
Service ceiling 16,000 ft/4,877m **S/E service ceiling** N/A
Std fuel 57.5 gal/218.5 lit **Max fuel** 97.5 gal/369 lit
Max range std fuel (no reserve) 230 nm/426 km
Range with opt fuel 410 nm/759 km
VFR Crew 1 **Passengers** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Soloy Conversions, Ltd. (206)754-7000
TWX 510-785-0241

Manufacturer/Model Westland Helicopters Ltd./30 Series 100-60
Total production (all variants) 41 (W-30) **First flight** 1979
Comments The Westland 30 is a large-bodied variant of the successful proven in service Lynx multirole helicopter, of which over 300 aircraft have been produced.
Engine(s) (2) Rolls Royce Gem 60 **HP (takeoff)** 1,180 shp
Dimensions main rotor 43.67 ft/13.31m **Tail rotor** 8 ft/2.44m
Height 15.5 ft/4.72m **Length** 46.67 ft/14.23m **Width** 10.17 ft/3.1m
Empty weight 7,348 lbs/3,333 kg **Gross weight** 12,800 lbs/5,806 kg
Useful load 5,452 lbs/2,473 kg **External** 4,500 lbs/2,042 kg
Vne 133 kts/246 kmh **Max cruise** 120 kts/222 kmh
Max rate of climb 2,050 fpm/624.6 mpm
HIGE 2,600 ft/792m **HOGE** 2,300 ft/701m
Service ceiling 12,500 ft/3,810m **S/E service ceiling** 4,300 ft/1,310m
Std fuel 348 gal/1,318 lit **Max fuel** 552 gal/2,090 lit
Max range std fuel (no reserve) 360 nm/667 km
Range with opt fuel 505 nm/935 km **VFR Crew** 2 **Passengers** 17-19
Standard avionics Autopilot and 4-axis autostabilization, plus avionics to customer specification.
1986/7 base price ($U.S.) $3,500,000
For more information contact David Gardner 0935-75222 (UK)
Jeffrey Fausett (703) 486-8000 (USA)

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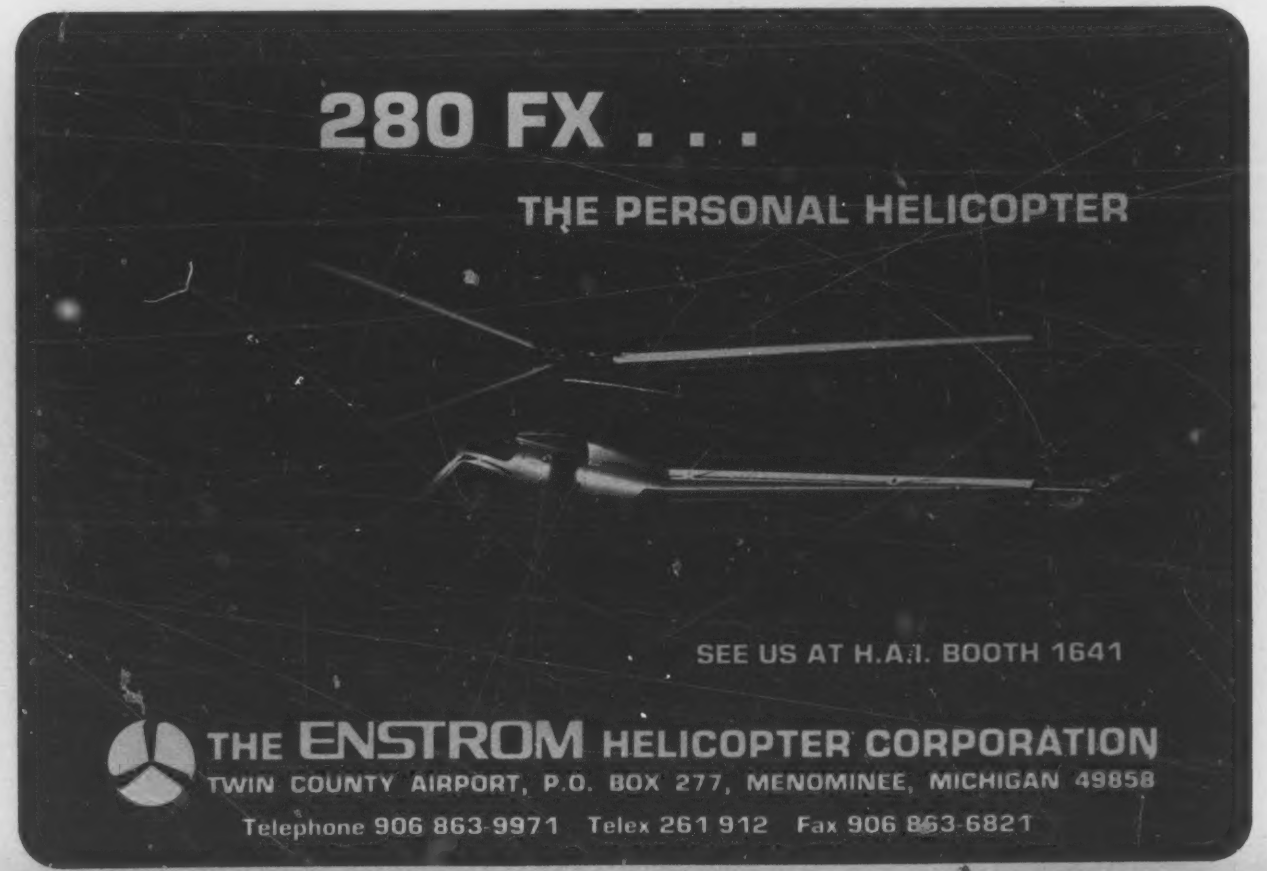

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Avionics Manufacturers' Specification Guide

The avionics directory provides data on avionics and flight control systems specifically suited for use in helicopters.

The directory has equipment categories listed alphabetically within functional groupings. Prices shown are manufacturers' list, uninstalled. Prices are subject to change based on model variations or capability enhancements.

The length of warranty is shown; specific coverage varies and should be confirmed by the manufacturer or dealer.

For complete and current information on any units shown, please contact the manufacturer.

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Communications Audio Control Panels

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Air Comm Systems ACS-300 $2,500	14 or 28 v	hot mike, edgelit panel	rotary/toggle	4 w/Muting 1 w/o Muting	2.7 lbs 2.6/6.3/9.7	1 yr	N/A	Dual Audio Mixer, available with 3 passenger ICS (Plug in PC Board).
Air Comm Systems ACS-775 $1,320	14 or 28 v	hot mike, edgelit panel	rotary/toggle pushbutton	8 w/Muting 1 w/o Muting	2.0 lbs 2.6/5.8 9.6	1 yr	N/A	Single Audio Mixer, Custom Engraved Horizontal or Vertical panel.
Air Comm Systems ACS-775-S.L $1,320	14 or 28 v	hot mike, edgelit panel	rotary/toggle	4 w/ Muting 1 w/o Muting	1.5 lbs 1.5/5.8/8.3	1 yr	N/A	"Slim Line" Lightweight Single Audio Mixer, custom engraved Horizontal or Vertical panel.
Air Comm Systems ACS-1278 $1,715	28V	hot mike, auto TX light dim. rearlit panel	rotary/toggle	12 w/Muting 2 w/o Muting	2.2 lbs 2.6/5.8/9.6	1 yr	N/A	Single Audio Mixer, custom engraved panel to customer specs.
Air Comm Systems ACS-179 $770	28V	Remote 2 passenger ICS-TX unit	slave	1 Mixed Audio w/ Muting (except on hot ICS OP) 1 ICS Buss	0.7 lbs 1.9/5.8/4.6	1 yr	N/A	Compatible with all Air Comm audio panels.

Communications Audio Control Panels (continued)

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Air Comm Systems **ACS-700-3** **$775**	28V	Remote 3 passenger ICS unit	slave	3	0.7 lbs 1.9/5.8 4.6	1 yr	N/A	Compatible with all Air Comm audio panels.
Air Comm Systems **ACS-PA100F** **$1,250**	28V	250 W PA/siren sytem	rotary/ toggle pushbutton	N/A	Amp 3.5 lbs 4.5/4.6/4.1 Control 1.0 lbs. 1.8/5.7/6.5	1 yr	N/A	Light weight PA system consisting of remote amp and panel mount control.
Baker **M1035** **$2,100**	27.5/2	intercom, 8 mic sel, auto level & squelch for rec'r inputs	pushbutton	13	2.2/ 2.25/ 5.75/5	2 yr	C50b	Functions customized to customer req. Toggle switches may be substituted for rec'r pushbuttons.
Baker **M1045** **$2,800**	27.5/2	Auto audio leveling, squelch for rec'r inputs intercom 10 mic sel	pushbutton	19	2.6/2.62 5.75/ 5.19	2 yr	C50b	Functions customized to customer req. UK CAA approved/ Fr STNA approved.
Bendix/ King **AC451-B** **$3,570**	18-33/ 2	Seperate speaker phone amp, MKB, mute	pushbutton	10	2.6/3/ 5.75/5.5	2 yr	C50c	10 audio channels plus 3 unmuted inputs, 3 cabin ICS inputs. Self contained system.
Bendix/ King **KA 119** **$845**	28/0.3	5 or 28V panel lighting avail	pushbutton	2 xmtrs, 7 revers	0.9/2.25/ 5.75/ 5.15	2 yr p&1	C506	For use w/ remote mounted audio amp KAA455, $2,830. Dzus rail mounted, Gray or black faceplate Hf input avail
Bendix/ King **KA 134** **$570**	14.28/ 0.8(14V) 1.3(28V)	Audio isolation & spk amp	pushbutton	3 xmtrs 5 revrs 3 unswitched revrs	0.8/1.2/ 3.3/7.75	1 yr p &1	C506	Blt-in-spk audio amp "Both" button allows monitoring of the unselected xcvr. No MKB.
Bendix/ King **KMA 24** **$1,050**	14.28/ 1.9	Integ MKB rcvr & lites	rotary xmit & pushbutton audio selectors	3 xcvrs, 5 add'l rcvrs, 2 unswitched	1.7/1.3/ 6.25/ 6.78	1 yr p &1	C35d, C506	Separate pushbutton for hdphn & spk selection; separate isolation amps for hdphn & spk input incl. Panel mounted.
Bendix/ King **KMA 24H** **$1,405**	14.28/ 1.6	Integ 5 station hot mike, keyed or vox intercom	rotary intercom & xmtr & pushbutton audio selectors	5 intercom, 4 or 5 xmtrs, 5 or 6 rcvrs	1.7/1.3/ 6.25/ 6.81	1 yr p &1	C506	No MKB. Separate pushbuttons for hdphn & spk selection. Voice activated intercom (5 station).
Collins **AUD-250** **$905**	14.28*/ 1.1(14V)	Auto mike select	switch	7	1.5/1.5/ 6.2/4.7	1 yr	C50b	*Adapter, $100.
Collins **AUD-250H** **$990**	14.28*/ 1.1(14V)	HF mike & audio select	switch	8	1.5/1.5/ 6.2/4.7	1 yr	C50b	For aircraft w/HF transceivers; *Adapter, $100.
Collins **AMR-350** **$1,230**	14.28*/ 1.0(14V)	MKB	switch	7	1.8/1.5/ 6.2/4.7	1 yr	C35d, C50b	Auto mike select. *Adapter, $100.
Collins **AMR-350H** **$1,425**	14.28*/ 1.0(14V)	MKB, HF, mike & audio select	switch	8	1.8/1.5 6.2/4.7	1 yr	C35d, C50b	For aircraft w/HF transceivers. *Adapter, $100.
Gables **G5881D** **$3,984**	28 VDC/ 1030ma	Intercom, 6 mic selections, 13 audio inputs, emergency select, voice/range/both filter select	pushbutton mic selectors, toggle switch audio input, selectors	13	2.56lb w/spkr amp, 1.81 w/o/ 2.625/ 5.75/4.0	2 yr	STC approved	Functions can be modified to meet customer specs.
Gables **G6686** **$2,699**	28 VDC/ 1100ma	6 mic selections, 13 audio inputs, COMM auto, separate volume functions for speaker & interphone	pushbutton 2.25/5.75 /6.5	13	2.25lb/	2 yr	STC approved	Functions can be modified to meet customer specs.
Gables **G6872-01** **$1,804**	28 VDC/ 1000ma	9 mic selections, (w/hot mic, PA *INTPH*), 25 audio inputs, separate volume for speaker & headphone	pushbutton	25	2.44lb/ 2.625/ 5.75/7.0	2 yr	STC approved	Originally designed for flight inspection purposes, features can be modified to meet customer specs.

Communications *Audio Control Panels (continued)*

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Mentor AP-1 **$472**	14/28/1.3	Audio isolation amplifier	rotary X toggle R	7R	1.4/1.6/6.3/7.4	1 yr	N/A	Intercom option.
Mentor APM-1 **$712**	14/28/1.3	Audio isolation amplifier	rotary X toggle R	7R	1.5/1.6/6.3/7.4	1 yr	N/A	Includes 3 light & tone marker receiver - intercom option.
Narco CP-136 **$945**	14.28/2.25/1.75	Intercom capability, separate phone and speaker amps	lighted pushbutton	12 inc 4 intercom	1.8/1.11/6.25/8.27	1 yr, 2nd yr opt	C50b	Auto feature on transmit selects proper receiver.
Narco CP-136M **$1,040**	14.28 2.25/1.75	Intercom capability, separate phone and speaker amps	lighted pushbutton	12 inc 4 intercom	2.0/1.11/6.25/8.27	1 yr, 2nd yr opt	C50b	Auto feature on transmit selects proper receiver.
Northern Airborne AA90 **$1,895**	28/.5	5 xcvr & PA outputs, 6 rcvr inputs, 6 sta ICS, 3 alert inputs, live or keyed ICS, PIL/OBS. Tx capab.	rotary tx sel/toggle rx sel	13	2.0/1.87/5.75/9	1 yr	M.O.T. approved	Available in single or multiple station versions. Multiple stations configured for EMS and ENG installations available.
Northern Airborne AA92 **$2,395**	28/.5	Indep pilot/observer, 4 xcvr & PA outputs, 6 sta ICS, plug comp w/AA90, live or keyed ICS, OAS acceptable	2 rotary tx sel/12 2 toggle rx sel	2.0/1.87	1 yr /5.75/9		M.O.T. approved	The AA92 is designed for forestry and other applications (airborne law enforcement) where the observer requires independent access to communications radios.
Northern Airborne AA95 **$2,195**	28/.75	5 xcvr & PA outputs, 6 xcvr inputs, 6 sta ICS, 3 alert inputs, live or keyed ICS, pilot/observer tx capability	rotary tx sel/toggle rx sel	13	2/1.87/5.75/9	1 yr	M.O.T. approved	Same as AA90 with additional capability of meeting strictest O.A.S. standards.
Northern Airborne AA10-010 **$995**	28/.5	2 xcur outputs/aux audio input, 3 hdset stations, ICS/RX vol controls.	toggle	3	1/1.09/5.75/6.32	1 yr	M.O.T. approved	Small, lightweight audio sys. Specially designed for piston helicopters. May also have as slave station controller with AA90/92 series controller.
Northern Airborne AA20-030 **$795**	28/.3 max	Radio monitoring, swept and/or 2 tone siren.	toggle/pushbutton	N/A	1.0/1.09/5.75/8	1 yr	M.O.T. approved	Exceptionally small, self contained 30 watt loudhailer/siren system.
Northern Airborne AA22-160 **$749**	28/1.0	Radio monitoring, swept and 2 tone siren	rotary/toggle	N/A	1/1.09/5.75/6.32	1 yr	M.O.T. approved	Control unit for LoudHailer/Siren system. Used with up to 5 PA 110 amplifiers (see below) to provide up to 550 wt/output power.
Northern Airborne PA 110 **$695**	28/4.5	100w power output LoudHailer amp/max 550W avail.	N/A	N/A	4.5/N/A 6/4	1 yr	M.O.T. approved	Remote amp for external loudhailer system. Used in conjunction with AA20 for high power requirements.
Northern Airborne AMS40 **$1,395**	28/.5	Same as AA90/w Loran/VOR CDI transfer switch	rotary tx sel/toggle rx sel	14	2/1.87/5.75/9.0	1 yr	M.O.T. approved	Standard version of AA90 custom control series. Comes w/DZUS mount adapter brackets and install kit.
Northern Airborne AMS41 **$1,495**	28/.5	Same as AMS40 except with VOX ICS	rotary tx sel/toggle rx sel	14	2/1.87/5.75/9.0	1 yr	M.O.T. approved	Standard version of AA90 custom controlled series with keyed/live/VOX ICS functions. Comes with DZUS mounting brackets and install kit.
Northern Airborne HSA 70 **T.B.A.**	28/N/A	Voice advisory of all operating systems status	rotary/toggle	40	10/.87/5.75/8	1 yr	M.O.T. approved	Voice annunciation of all cockpit and flight data against real time. Optional data storage of cockpit and flight information for maintenance records.

Communications *Audio Control Panels (continued)*

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Northern Airborne AMS 42 $2,495	28/.35	Dual controller voice lock VOX ICS	rotary tx sel/ toggle rx sel	14	2/1.87/ 5.7/9.0	1 yr	M.O.T. approved	Offers two independent channels of op w/VOX/keyed/live ICS supports pilot, co-pilot and 4 pass. Will work in both RH and LH pilot config.
Racal Acoustics B691	28/.5	Intercom facility, carbon or EM mic amps	toggle rx sel/ rotary tx sel (4 off) rotary volume controls	7	0.52/ 14.6 x 4.8 x 6.4 cm	1 yr	CAA UK release	Suitable as a station box for fixed & rotary wing acft.
Racal Acoustics B692	28/.5	Intercom facility, carbon or EM mic amps	toggle rx sel/ rotary tx sel (6 off) rotary volume controls	13	.72/14.6 x 6.7 x 6.4 cm	1 yr	C50b	Suitable as a station box for fixed & rotary wing acft.
Racal Acoustics B693	28/.5	Intercom facility, carbon or EM mic amps	rotary rx sel/ rotary tx sel (4 off) rotary volume controls	4	.85/14.6 x 5.8 x 8.9 cm	1 yr	CAA UK release	Suitable as a station box for fixed & rotary wing acft with individual volume controls.
Racal Acoustics B8003	28/1.0	Selectable intercom net facility, carbon or EM mic amps controls	push button selections, rocker volume	5	.93/14.6 x 5.72 x 10.6 cm	1 yr	CAA UK release	Integral part of RA 800 digital audio mgmt sys.
Terra TMA 230 $695	14.28/ 1.5	Integ.MKB revr lites audio isolation and and spler amp	switch	3 xcvrs, 5 addt'l receivers, 3 unswitched	1.05/1.2 /6.25/ 5.5	3 yr	N/A extended	Auto feature on transmit selects proper receiver selectable intercom.

Communications Control Panels - Comm, NAV, ADF, ATC

Manufacturer/Model Price	Input (VDC/Amps)	Type Display	Features	Type Controls	Weight/Panel Size	Warranty	TSO Remarks
Gables 811 Series $2,107	500ma	Gas, discharge	Active/PreSelect Freq. selection, transfer switch, fault display, memory capability remote/local op	Shutter wheel, push-button toggle	1.7lb/ 2.687/ 2.281/ 6.0	C35, C36, C37, C38, C40, C41, C66, C74	& 2/5 radio interfacing, microprocessor controlled, variations to faceplate layout available.
Gables 814 Series $1,573	400-450ma	N/A	Active/PreSelect freq. selection, transfer switch, fault display, memory capability, remote/local op	Shutter wheel, push-button toggle	1.7lb/ 2.687/ 2.281/ 6.0	C35, C36, C37, C38, C40, C41, C66, C74	Data Bus (Proline II), microprocessor controlled, variations to faceplate layout available.

Communications *HF Transceivers*

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range (MHz) No. of channels	Type of tuning/SSB	Installation	Weight	Panel Size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/ King **KHF 950** **$15,725**	28V/15.9/ 37.5 (AM)*	2-30 MHz/ 99	Automatic/ LSB, AM, USB, phone	Remote, 3-box sys	20.2	/5.75/7.7**	2 yr/ p&1/ Yes	**KCU-951 ctrl head. Choice of 2 panel-mounted ctrl heads. Price incl ctrl/disp unit, recvr/exciter & power amp/coupler. *150 watt output in SSB.
Bendix/ King **KHF 990** **$15,710**	28V/ 16.5 xmit/ 37.5 (AM)*	2-30 MHz/ 19	Automatic/ LSB, AM USB, phone	Remote, 3-box sys	21.8	2.35/2.193/5.5	2 yr/ p&1/ Yes	All 176 ITU maritime radiophone network chan programmed. 19 pilot programmable chan std. Price incl ctrl/disp unit, recvr/exciter/power amp & coupler. *150 watt output in SSB.
Collins **HF-230** **$15,540**	28/16.7/ 100	2.0-29.9999/ 280,000	Synthesizer/ Upper SB, lower SB, AM	Remote	24.4	1.87/5.75/5.38	1 yr/ C31c, C32c	1/2-duplex, compatible w/maritime radiophone net; add'l chan: 40 operator programmable, 176 ITU radiophone programmed; opt SELCAL comp; opt helicopter sys, w/PAC-230 probe ant coupler, $16,540, 23.2 lbs.
Collins **HF-9000** **$25,600**	28/15.2/ 175	2.0-29.9999/ 280,000	Synthesizer, USB, LSB, AM data	Remote	27.5	2.63/5.75/5.85	1 yr/ C31d, C32d	Fiber optic interface, rapid-tune antenna coupler (40 msec computer tuning); 99 operator programmable channels, 178 ITU radio telephone & emergency pre-programmed channels; 10/50 175 watts selectible power output; BITE.

Communications *In-Flight Telephones*

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Receiver sensitivity (microvolts)	Control unit	Type of system Antenna	Weight	Warranty/TSO	Remarks
Bendix/ King **KT 96** **$2,980**	14/3.0/ 10	12db S+N @1.0 uV (hard)	KT 96	Simplex/ KA55 incl/KA 46A (blade opt)	4.5 w/ handset	1 yr p&1/ Yes	Price incl ant & install kit. KA 115 handset opt. Can be used thru Bendix/King audiopanels w/ or w/o handset installed. Panel mounted, 28V req opt converter. Handset $470 extra.
Global-Wulfsberg **Flitefone VI** **$6,783**	27.5/ 0.9 rx/ 0.4 tx/ 10w	0.7 for 10db quieting	New cockpit control with choice of 2 cabin ctr handsets	Full duplex/ rod & ball or jetblade	10.7	1 yr N/A	Flitefone VI is the first phone capable of "Direct Dial" telephone calls, when connected through an automated ground station. Also will be able to handle operated assisted calls. Full intercomm capability. HF compatible.
Terra **Jetfone I** **$4,610**	27.5/ 0.4 rx/ 1.6 tx/ 10w	0.5 for 12db quieting	Cockpit control w/ 1 choice of handset	Full duplex/ rod & ball or blade opt.	6.8/ handset	3 yr extended N/A	Jetfone I is a 12 channel manual air-to-ground telephone system.
Terra **Jetfone II** **$2,920**	27.5/ 0.4 rx/ 1.6 tx/ 8w	0.5 for 12db quieting	Jetfone II	Full duplex/ rod & ball or blade opt.	4.25	3 yr extended N/A	Jetfone II is a 12 channel manual air-to-ground panel mounted telephone system.

Communications VHF Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range No. of channels Spacing (KHz)	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aire-Sciences RT-551A $1,925	14/3.0 6w	118-135.97/ 720/25 KHz	Manual squelch	Panel	3.3/3.2/ 2.6/11.5	1 yr/ No	N/A
Aire-Sciences RT-661A $2,125	14/3.0 6w	118-135.97/ 720/25 KHz	Manual squelch	Panel	3.3/3.2/ 2.6/11.5	1 yr/ C37b, C38b	N/A
Becker AR 2009/25	6-10w output	118-135.975/ 720/25 KHz	Single on/off switch, volume & squelch knobs & rotary freq. selectors	Panel	1,3 kg	N/A	System doubles as an intercom between crews, operable to 15,000 ft.
Becker AR 2010/25	N/A 720/25 KHz	118-135.975/	Built-in test and diagnostic circuitry	Panel	1,3 kg	N/A	Operable to 45,000 ft.
Bendix/ King KY 92 $1,950	14 or 28/ 4.5/7	118-135.975/ 720/25 KHz	Auto squelch	Panel	2.8/1.5/ 6.25/10.5	1 yr/ C37b, C38b	Crystal ctrl dig synthesized; *KA 39conv req for 28V operation. $260.
Bendix/ King KY 196 $2,760	28V/5/ 16	118-135.975/ 720/25 KHz	Disp act & stby freq	Panel	3.2/1.3/ 6.25/14.6	1 yr/ C37b, C38b	Act & stby freq simultaneously disp w/non volatile memory; 9 pilot-programmable chan for freq storage in non-volatile memory. Opt. ext freq range avail.
Bendix/ King KY 197 $2,760	14V/6/ 10	118-135.975/ 720/25 KHz	Disp act & stby freq	Panel	3.2/1.3/ 6.25/14.6	1 yr/ C37b, C38b	Act & stby freq simultaneously disp w/non volatile memory; 9 pilot-programmable chan for freq storage in non volatile memory.
Bendix/ King KTR 908 $7,495	28V/7/ 20	118-135.975/ 720/25 KHz	Disp act & stby freqs. KFS 598 dig ctrl hd; flip-flop of act & stby freq.	Remote	4.3/5/ 1.7/11.8	2 yr/ C37b, C38b	Opt KFS 593 gables ctrl hd; Remote flip-flop of freq. Opt VHF SELCAL capability avail. Opt cont head avail. For freq MSMT from KNS 660 and 9 pilot-programmable chan for freq storage. Opt ext freq range avail.
Bendix/ King VCS-40A $9,850	13-33/.5/ 20w	118-135.975/ 720/25 KHz	Dichronic disp, thermal protection, SELCAL & ACARS Compatible	Remote	6.7/3.1/ 2.5/2.5	2 yr/ C73c, C38c	ARINC 429 interface. Extended range tuning opt.
Collins VHF-20A $10,705	28/6.5/ 20w	118-135.975/ 720/25 KHz	2 storable channels, non-volatile memory gas discharge display	Remote	6.8/3.13/ 2.5/6.5	1 yr/ C37b, C38b	CTL-20 electronic ctrl include. VHF-20B, 118-151.975 MHz. $13,635.
Collins VHF-21A $8,430	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory gas discharge display	Remote	5.8/2.63/ 2.38/5.39	1 yr/ C37c, C38c	Directly repl VHF-20A; blt-in diagnos. 2x5, serial dig tuning; incl CTL-22 serial tuning ctrl; VHF-21B. 118-151.975 MHz, $11,035.
Collins VHF-22A $8,430	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory gas discharge display	Remote	5.8/2.63/ 2.38/5.39	1 yr/ C37c, C38c	Blt-in diagnostics; 2x5, serial dig tuning incl CTL-22 serial tuning ctrl; VHF-22B, 118-151.975 MHz, $11,035.
Collins VHF-253 $3,310	10-32/ 4.3 @ 14V/ 10w	118-135.975/ 720/25 KHz	6 storable channels, EAROM non-volatile memory LCD display	Panel	2.7/1.3/ 6.3/12.1	1 yr/ C37b, C38b	Rem freq. mgmt; visible act & stndby freq + 4 stored presets; opt broadband, (VHF-253S), $3,760.

Communications *VHF Transceivers (continued)*

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range No. of channels Spacing (KHz)	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins **VHF-422A** **$9,380**	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory gas discharge display	Remote	5.8/2.63/ 2.38/5.39	1 yr/ C37c, C38c	Blt-in diagnostic compatible only w/CSDB or ARINC 429 controls includes CTL-22 CSDB control. VHF-422B, 118-151.975 MHz, $12,140.
CSI **TR-720** **$595**	9.6/.039 (rec)/ 1w	118-135.975/ 720/25 KHz	Twist-off battery, 3 memory chan, FM noise squelch	Portable (handheld)	1.2/6.6/ 2.6/1.5	3 yr/ No	Synthesized, operates on all 720 COMM channels and 200 NAV channels. All accessories included.
Dayton **Granger** **150-2A** **N/A**	16.5/ 1w	121.5/123.1 2/25 KHz	Alkaline battery pack	Portable	3.3/11/ 3.5/1.5	1 yr/ No	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.
Dayton **Granger** **150-3A** **N/A**	16.5 1w	121.5/123.1 2/25 KHz	Water-activated battery pack	Portable	2.3/9.75 3.5/1.5	1 yr/ No	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.
Dayton **Granger** **150-4A** **N/A**	12.5 1w	VHF/UHF 4/25 KHz	Alkaline battery pack	Portable	2.3/9.75/ 3.5/1.5	1 yr/ N/A	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.
Narco **COM-120** **$2,375**	14 or 28*/ 10 nom	118-135.975/ 720/25 KHz	Auto squelch, blt-in intercom	Panel	3.5/1.75/ 6.25/11	1 yr, 2 yr opt/ C37b, C38b	Tx indicator lamp, mike & audio leveling *28V req converter MP-10.
Global-Wulfsberg **RT-118** **$4,336** (transceiver only)	27.5/ .9 rx 6.5 tx 20w	118-138 MHz/ 800/25 KHz	30 pre-prog chan when used with C-1000 ctrl head	Remote RT w/std DZUS width control head head	5.6/2.35/ 5.75/4.3	1 yr/ p&1/ C37b, C38b	Works with Global-Wulfsberg Flexcomm FM pkg.
Global-Wulfsberg **WT-200B** **$4,095**	27.5/ .9 rx 6.5 tx 20w	118-151.975/ 1,360/25 KHz	N/A	Remote RT, panel-mounted control head	5.6/5/ 2.87/13.25	1 yr/ p &1	Compatible with any ARINC 2 out 5 tuning code.
Narco **COM-120/20** **$2,475**	14 or 28*/ 20	118-135.975/ 720/25 KHz	Auto squelch, blt-in intercom	Panel	3.8/1.75/ 6.25/11	1 yr, 2 yr opt/ N/A	Tx indicator lamp, mike & audio leveling, *28V req converter MP-20.
Narco **COM-810** **$2,575**	14/.7 8 nom	118-135.975/ 720/25 KHz	Displays active & standby freq.	Panel	2.9/1.5/ 6.25/11	1 yr, 2 yr opt/ C37b, C38b	Built-in intercom, remote transfer of active & standby freq.
Narco **COM-811** **$2,375**	28/3 8	118-135.975/ 720/25 KHz	Displays active & standby freq.	Panel	2.9/1.5/ 6.25/11	1 yr, 2 yr opt/ C37b, C38b	Built-in intercom, remote transfer of active & standby freq.
Terra **TX 720** **$945**	14/1.0/ 5.0	118-135.975/ 720/25 KHz	Pushbutton channels, auto or manual squelch	Panel	1.25/1.6/ 3.2/9	3 yr ext./ No	Synthesized, operates on all 720 comm channels. Includes installation tray and connectors.
Terra **TPX 720** **$495**	12/14/ Rec. 060/ 2.5w	118-135.975/ 720/25 KHz	Standard mic & phone jacks, hi-low power	Portable (handheld)	2.1/9.5/ 3.27/1.9	3 yr ext./ N/A	All metal case, all accessories opt. batteries & antenna incl.

Communications VHF/FM Mission Control Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range Spacing (KHz)	No. of channels	Features included	Component independence	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Global-Wulfsberg **RT-30** **$4,438**	27.5/1.3 rx 2.8 tx 10w	29.70-49.99 20 KHz	2,030	N/A	N/A	Remote RT with C-1000 ctrl	7.5/2.35/5.75/4.3	1 yr/ N/A	Pre-program 30 channels. All 32 standard EIA tones standard in RT.
Global-Wulfsberg **RT-138** **$4,268**	27.5/1.3 rx 3.4 tx/ 10w	138-173.9975 2.5 KHz	14,400	N/A	N/A	Remote RT with C-1000 ctrl	7.5/2.35/5.75/4.3	1 yr/ N/A	Pre-program as many as 30. channels. All 32 standard EIA tones standard in RT.
Global-Wulfsberg **RT-406F** **$5,508**	27.5/1.6 rx 3.2 tx 10 w	46.00-511.9875 12.5 KHz	8,480	N/A	N/A	Remote RT with C-1000 cntrl	7.5/2.35/5.75/4.3	1 yr N/A	Pre-program as many as 30 channels. All 32 standard EIA tone standard in RT.
Global-Wulfsberg **RT-450** **$4,934**	27.5/1.6 rx 3.2 tx/ 10w	450-470 MHz 12.5 KHz	1,600	N/A	N/A	Remote RT with C-1000 ctrl	7.5/2.35/5.75/4.3	1 yr/ N/A	Pre-program as many as 30 channels. All 32 standard EIA tones standard in RT.
Global-Wulfsberg **RT-7200 w/ 722A and install kits** **$7,507**	27.5/1.5 rx 5.5 tx/ 10w	138-174 MHz 5 KHz	7,200 mounted	N/A	N/A	Remote	9.3/5.19/5/12.58	1 yr/ N/A	Eight CTCSS tones avail. Control head C-722A.
Global-Wulfsberg **RT-9600 w/C962A and install kits** **$7,355**	27.5/1.5 rx 5.5 tx/ 10w	150-174 MHz 2.5 KHz	9,600	N/A	N/A	Remote mounted	9.3/5.19/5/12.58	1 yr/ N/A	Eight CTCSS tones avail. Control head C-962A
Global-Wulfsberg **C-1000** **$2,359**	N/A	N/A	N/A	FM transceiver ctrl head	N/A	N/A	2.6/3/5.75/7.5	1 yr N/A	Ability to thumbwheel control all available Flexcomm channels (RT-30, RT-138, RT-450, RT-406F and RT-118).
Northern Airborne **CH200 Series** **$1,884 Base**	27.5/.4	All intervals	2 Radios to 56ch. each & fully agile	Dual Transceiver Control	Runs Wulfsburg, NAT Motorola.	Dzus Mount	2.3 lbs. 3/5.75/7.5	1 yr	Can run any 2 of Flexcomm/TAC/COM, RT9600/7200, FF40, or MCX100. Alphabetic Channel Labels.
Northern Airborne **CH300 Series** **$1,979 Base**	27.5/.4	All intervals	3 Radios to 56ch. each & fully agile	Triple Transceiver Control	Runs Wulfsburg, NAT Motorola.	Dzus Mount	2.3 lbs. 3/5.75/7.5	1 yr	Can run any 3 of Flexcomm/TAC/COM, or MCX100. Alphabetic Channel Labels.
Northern Airborne **CH400 Series** **$2,073 Base**	27.5/.5	All intervals	4 Radios to 56ch. each & fully agile	Quadruple Transceiver Control	Runs Wulfsburg, NAT Motorola.	Dzus Mount	2.4 lbs. 3/5.25/7.5	1 yr	Can run any 4 of Flexcomm/TAC/COM, or MCX100. Alphabetic Channel Labels.
Northern Airborne **NT150** **$2,916**	27.5/.5 Rx 2.0 Tx	150-174 MHz 5 KHz	4,800	Scan, Priority Scan, Extended Tones	Tray Compatible with all NAT Series	Remote Mounted	9.9 lbs. 2.75/9.5/13.5	1 yr	Agile programmable RT, with up to 32 ch., scan & 2 ch. priority CTCSS & Digital Tones standard.
Northern Airborne **NT403 B** **$3,115**	27.5/.5 Rx 2.2 Tx	410-430 MHz 12.5 KHz	1,600	Scan, Priority Scan, Extended Tones	Tray Compatible with all NAT Series	Remote Mounted	9.9 lbs. 2.75/9.5/13.5	1 yr	Agile programmable RT, with up to 32 ch., scan & 2 ch. priority CTCSS & Digital Tones standard.
Northern Airborne **NT450** **$3,208**	27.5/.5 Rx 2.2 Tx	450-470 MHz 12.5 KHz	1,600	Scan, Priority Scan, Extended Tones	Tray Compatible with all NAT Series	Remote Mounted	9.9 lbs. 2.75/9.5/13.5	1 yr	Agile programmable RT, with up to 32 ch., scan & 2 ch. priority CTCSS & Digital Tones standard.
Northern Airborne **NT806** **$3,305**	27.5/.5 Rx 2.5 Tx	806-870 MHz 12.5 KHz	Mode dependant	Scan, Priority Scan, Extended Tones	Tray Compatible with all NAT Series	Remote Mounted	9.9 lbs. 2.75/9.5/13.5	1 yr	Agile programmable RT, with up to 32 ch., scan & 2 ch. priority CTCSS & Digital Tones standard.

Flight Control Autopilots

Manufacturer/Model Price	STC(s)	Stabilized in	Command turn/Preselect Tracking	Flight director interface	Single pilot IFR certification	Weight	Warranty	TSO	Remarks
Astronautics P/N 131500 $20,000- $38,500	500D 500E 500F	Roll Pitch Yaw	Yes Yes No	No	No	N/A	1 yr or 1,000hrs	Yes	Modes include hover, altitude hold and heading hold in cruise and hover.
Astronautics P/N 131500-9 $25,000- $43,500	500D 500E 500F	Roll Pitch Yaw	Yes Yes Yes	No	No	N/A	1 yr or 1,000hrs	Yes	Modes include altitude hold, hover, heading hold, nav coupling to VOR/ILS, Loran, etc.
SFENA FCS 200B $40,614- $57,364	206B series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	37-50	1 yr	Yes	Yaw channel opt system includes force trim. Features full time turbulance damping and atti. retention throughout total flight envelope and more.
SFENA FCS 200L $47,380- $64,130	206L series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	40-50	1 yr	Yes	Yaw channel opt systems includes force trim. IFR kit avail. for $32,000 plus avionics.
SFENA FCS 90 $78,940	222UT or B series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	45-60	1 yr	Yes	Includes auto pitch and roll trim, heading select, altitude hold, beep trim, force trim and primary altitude horizon.
SFIM AP 137 On Request	SA 330	Roll Pitch Yaw	No	Yes	No	20	1 yr or 1,000hrs	Yes	Modes include altitude, turn coordination.
SFIM AP 155D On Request	AS 365N	Roll Pitch Yaw	Hdg	Yes	Yes	45	2 yr or 2,000hrs	Yes	Duplex, fail passive, fail operational integrated preflight text.
SFIM AP 155P On Request	AS 332	Roll Pitch Yaw	Hdg	Yes	No	21	1 yr or 1,000hrs	Yes	Duplex, fail passive, fail operational integrated flight test standard on AS 332.
SFIM AP 85E3 On Request	AS 350	Roll Pitch Yaw	Hdg	No	No	15	2 yr or 2,000hrs	Yes	Modes include altitude, A/S Hdg select, turn coordination.
SFIM AP 85T31 On Request	AS 335 AS 350	Roll Pitch Yaw	Hdg	Yes	No	40-50	2 yr or 2,000hrs	Yes	Modes include altitude, A/S Hdg turn-cooridnation. Two axis version available.
SFIM AP85T31 light 2 Axis $30,240	350 355	Pitch Roll	Hdg. SEL	Yes	No	15	2 yr or 2,000hrs	Yes	STC's by AHC. Retrofit kit avail. from AHC. Auto-trim attitude and airspeed hold options.

Flight Control Flight Directors

Manufacturer/Model Price	Input (VDC/amps)	Features included	STC(s)	Display type/HSI Autopilot interface	Single pilot IFR/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Astronautics P/N 131810 On Request	115VAC, 400 Hz	2 Cue F/D; hdg hld, VOR/ILS, BC, alt hld, GS RNAV, Standby & go-around	S-76	ADI 5"/ HSI 5"/ No	No/ N/A	4/ 3/3/ N/A	1 yr or 1,000 hrs/ Yes	Computer & mode select panel is in one unit & is panel mounted. Cyclic pitch & roll.

Flight Control *Flight Directors (continued)*

Manufacturer/Model Price	Input (VDC/amps)	Features included	STC(s)	Display type/HSI Autopilot interface	Single pilot IFR/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Astronautics P/N 129855 On Request	115VAC, 400 Hz	3 Cue F/D, hdg, VOR/ILS, man & auto decel, AS hld, alt hld. RNAV, descent, & go-around	S-76	ADI 5"/ HSI 5"/ No	No/ N/A	6/ 3/3/6	1 yr or 1,000 hrs	Cyclic pitch & roll, collective pitch.
SFENA FDS 90 $32,604	28/1	Digital; tracks/ captures HDG, V/L BC, ALT, GS, IAS, DC*	206B Ser. 206L Ser. 206B 222UT	4" ADI,3 cue/any/ Yes	Yes/ panel	4" ADI, 3" Cntrlr 4/4/9.2/ 3/3/9.2	1 yr/ Yes	*DC-decelleration available with 2228 & 222UT only

Flight Control *Intergrated Flight Control Systems*

Manufacturer/Model Price	STC(s)	Single pilot IFR Command turn	Stablization in	Preselect capability	Tracking capability (modes)	Flight director interface	Weight/Warranty/TSO	Remarks
Honeywell SHZ 109-2 On Request	AB 109, AB 109-2	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS Loran, RNAV/, ALT, A/S	AD-500/ FZ-702	Varies/ 1 yr/ Yes	TC by Agusta
Honeywell SHZ-212-2 On Request	Bell 212	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	Astronautics FZ-702	Varies/ 1 yr/ Yes	STC held by Associated Air Ctr.
Honeywell SHZ-212-3 On Request	Bell 212	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT, VLF Omega	Astronautics FZ-702	Varies/ 1 yr/ Yes	STC by Sperry incl auto-trim.
Honeywell SHZ-222 On Request	Bell 222A Bell 222B	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	GH-222/FZ-702	Varies/ 1 yr/ Yes	TC by Bell
Honeywell SHZ-335F On Request	AS-335F-1	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	AD-550/FZ-702	Varies/ 1 yr/ Yes	STC by Sperry
Honeywell SHZ-412 On Request	Bell 412	Yes/ Yes	Roll, Pitch, Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	Astronautics FZ-702	Varies/ 1 yr/ Yes	TC by Bell
Honeywell SPZ-7000 On Request	SA-365N, S-76A/ S-76B Bell222UT	Yes/ Yes	Roll, Pitch, Yaw, Collective	HDG, ALT, A/S, V/S	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT, VLF Omega	AD650; EFIS/ FZ-700	Varies/ 1 yr/ Yes	Dig. 4-axis sysEFIS opt. on S-76 365N. STC by Sperry on S-76, 365N. STC held by HeliDyne on 222UT
SFENA FCS 200/ FDS 90 $79,984- $96,734	206B Series 206L Series	Yes/ Yes	Roll, Pitch Yaw	Yes	HDG, V/L, BC, ALT, GS, VS, IAS	Yes	65/ 1 yr/ yes	Yaw channel opt, single pilot IFR opt; IFR appx. $18K-32K.
SFENA AFCS 90 $94,870	222B 222UT	Yes/ Yes	Roll, Pitch Yaw	Yes	HDG, V/L, BC, ALT, GS, VS, IAS, DC*	Yes	55/	Collective channels opt, 1 yr/ Decel mode-std. Yes
SFIM AFCS 155 On Request	AS 332 AS 365N	Yes/ Yes	Roll, Pitch Yaw, Collective option	HDG, CRS, VS, IAS, Rad Alt, HOV Ht	HDG, AS, ALT, VS, VL PC, GS, HOV, NAV, radalt, go-round, fly up	Yes	65/ 90 day/ yes	AP 155 along with digital 4-axis FDC 155, or FDC 85. If fourth axis not req'd, FDC 85, P4 for CAT II approaches.

Flight Control *Intergrated Flight Control Systems (continued)*

Manufacturer/Model Price	STC(s)	Single pilot IFR Command turn	Stablization in	Preselect capability	Tracking capability (modes)	Flight director interface	Weight/Warranty/TSO	Remarks
SFIM **AFCS 155P** **On Request**	AS 332C, L, M	Yes/ Yes	Roll, Pitch Yaw Collective option	HDG, CRS, VS, Rad Alt, Hov Ht, Beepable IAS	HDG, AS, ALT,VS, LOC BC,VOR, GS, HOV, LRN NAV, RAD ALT, GA Fly Up	Yes	65/ 90 day yes	AP 155P along with FDC 85 P3 or 4 axis digital FDC 155 FDC 85P4 Certified for CAT II approach
SFIM **AFCS 155D** **On Request**	AS 365N, N1	Yes/ Yes	Roll, Pitch Yaw Collective option	HDG, CRS, VS,Rad Alt, Hov Ht, Beepable IAS	HDG, AS, ALT, VS, LOC BC, VOR, GS, HOV, LRN NAV, RAD ALT, GA Fly Up	Yes	65 90 yes	AP 155D & FDC 85D Basic on N1 4 axis digital FDC 155 with 5 tubes SFIM/Bendix EFIS
SFIM **ACFS 165** **On Request**	332MK II	Yes/ Yes	Roll, Pitch Yaw Collective	HDG, CRS VS, Rad Alt HOV Ht, Beepable IAS	HDG, AS ALT, VS, LOC, BC. VOR, GS, HOV, LRN NAV, RAD ALT, GA, Fly Up	Yes	38/ 90/ no	Digital dual - dual architecture fail operational, fail passive after failure light weight 4 MCU, integrated maintenance system (BITE for 1st & 2nd level)
SFIM **ACFS 85T31** **On Request**	AS 355	Yes/ Yes	Roll, Pitch Yaw	HDG, CRS, VS	HDG, AS ALT, VS LOC, BC, GS, LRN NAV, Turn Coordin G/A	Yes	30/ 2 yr/ yes	N/A
SFIM **AFCS 85T31** **On Request**	AS350	No/ Yes	Roll, Pitch Yaw	HDG, CRS	HDG, ALT AS, Turn Coordin. autorim in pitch & roll	Yes		FDC 85 optional for NAV coupling VFR only
SFIM **AFCS T31** **On Request**	AS 355	Yes/ Yes	Roll, Pitch Yaw	HDG, CRS VS	HDG, AS, ALT, V/S, VL, BC, GS, Nav, turn coordination, go-around	Yes	30/ 22 yr/ yes	N/A

Electronic Flight Instrument Systems *Display Units*

Manufacturer/Model Price	Input (VDC) Power (watts)	Display type	Required maintenance interval	External fans	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/King **ED102A** **$17,640**	18-33/ 55	Shadow Mask Color CRT	N/A	Not required	14/6.25/ 6.25/14	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component failure. Price incl. installation kit, mounting tray and iclinometer.
Bendix/King **102D** **$13,250**	18-33/ 45	Shadow Mask Color CRT	N/A	Not required	9.5/4.8/ 5.1/10.7	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component faliure. Price incl. installation kit, mounting tray and iclinometer.
Bendix/King **102E** **$16,420**	18-33/ 45	Shadow Mask Color CRT	N/A	Not required	9/4.8/ 5.1/10.7	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component failure. Price inc. installation kit, mounting tray and iclinometer.
Honeywell **ED-600** **On Request**	28/ 63 max	High resolution CRT	N/A	Recommended	9/4.7/ 5.1/10.4	Standard/ Yes	High resolution, stroke/raston, interchangable, pilot and auto dim.
Honeywell **ED-800** **On Request**	28/ 63 max	High resolution CRT	N/A	Recommended	10/5.1/ 6.1/10.4	Standard/ Yes	High resolution, stroke/raston, interchangable, pilot and auto dim.

Electronic Flight Instrument Systems *Symbol Generators*

Manufacturer/Model Price	Input (VDC) Power (watts)	NTSC/FLIR Interface	Video outputs per SG	Aircraft specific software required	External fans	Mounting	Weight/Size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/King **SG101B** **$26,770**	18-33/ 95	Yes	5	No	Not Required	Rack/DPX	13.0/8/ 6/12.62	2 yr/ Yes	ARINC 429 interface. Software certification industry's most advanced. Price incl. mounting rack and connector kits.
Honeywell **SG-700** **On Request**	28/ 70 max	No	2	No	Not Required	Tray	16.9/7.6 4.9/15.8	Standard/ Yes	Analog interface. Custom helicopter symbology.
Honeywell **SG-705** **On Request**	28/ 70 max	No	2	No	Not Required	Tray	16.9/7.6/ 4.9/15.8	Standard/ Yes	Analog/digital interface. Dual vector generators.

Navigation *Area Navigation Systems*

Manufacturer/Model Price	Input (VDC/amps)	Frequency range No. of channels	No. of waypoints/ Waypoint entry/ Max nm	Type display	VOR/DME integration	Extra functions	Interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/King **KNS 80** **$7,425** (package price may be available)	14 or 28V/ 2.1 (14), 1.1 (28)	199/ 200	4/ Rotary, Pushbutton	CDI, HSI Dig, gas discharge	Incl nav, GS & DME	Gnd spd & time to WP, DME hid	FD, AP, HSI	6/3/ 6.25/ 12	1 yr/ No	VOR parallel & RNAC appr. mode; incl 200 chan nav, 40 chan GS, 4 WP RNAV, 200 chan DME
Bendix/King **KNS 81-10** **$5,685**	14 or 28V/ 1 (14), . (28	108/117.95 200	10 incl freq/ Rotary, Pushbutton	Dig, gas discharge	Incl nav & GS, req KDM706 or KN62A DME	Disp all WP parameters simult, radial from WP or VOR	FD, AP, HSI	5/2/ 6.3/ 11.5	1 yr/ Yes C34c C36c, C40a	VOR parallel mode, opt. interface w/ add'l GC 381A $270.
Bendix/King **KNS 81-30** **$9,450**	14 or 28V/ 1 (14), .5 (28)	199.9/ 454	10/Rotary, Pushbutton	CDI, HSI Dig, gas discharge	Incl VOR & GS, req KTU 709 Tacan	Disp all WP parameters simult disp radial from VOR or WP, also can use Tacan for brg input	FD, AP, HSI	5/2/ 6.3/ 11.5	1 yr/ C34c, C36c, C40a	Operates using either VOR or Tacan brg; model w/ GC381A $250.
Collins **ANS-351** **$5,285**	14.28/ 1.3 @ 14V	VOR/DME interface	8/ Dial/ 199.9	Incand	VOR w/video output, 40 mv/nm analog DME	Gnd spd, time to WP, enroute appr modes	AP, HSI, RMI (built-in VOR converter)	3.3/ 1.75/ 6.25/ 12.25	1 yr/ C36c	Pos check briefly returns sys to raw data; digital brg TO/FR WP on VIR-351.
Foster **RNAV612** **$6,900 -** **$9,500**	11-32/ .33	VOR/DME interface	5/ Knob	Incand filament	Yes	Range monitor std. Auto WP blt/in TSO'd VOR/LOC Conv	All NAV & DME	3/ 3-ATI 10.04	1 yr/ C36c C40a	NAV 1/NAV 2 switching press pos disp, slant rng corr, RMI drive.
Foster **RNAV612A** **$4,550 -** **$7,150**	11-32/ .33	VOR/DME interface	4/ Knobs	Incand filament	All VOR & DME/ Yes	Blt/in TSO'd VOR/LOC Conv	All VOR/DME	3/ 3-ATI/ 10.04	1 yr/ C36c, C40a	NAV 1/NAV 2 switching press pos disp, slant rng corr, RMI drive.
Narco **NS-801** **$2,595**	14.28/ 1.2, 6	108-117.95/ 200	8/Rotary, Pushbutton	Gas dis, CDI, HSI	Incl VOR and GS	Auto load of pres pos, non-vol memory	HSI/IDME-891/AP, FD	2.9/ 2.25/ 6.38/ 11	1 yr/ 2 yr opt. N/A	Interfaces w/Narco DME-190, 195, 890 IDME-891 and King KN-64, KN-62A.
Narco **NS-800** **$4,595**	11-32/ 1.2 @ 14VDC	108-117.95/ 200	8/Rotary, Pushbutton	Gas dis	Incl NAV, GS and DME	Displays WP parameters along/w dist. gdspd, time to WP, radial to or from WP	FD, AP, HSI	4.4/ 2.96/ 6.25/ 11.55	1 yr/ C40b, C36c, C34c	VOR parallel and RNAV mode, 100 watt, 200 channel NAV and DME, 40 channel.

Navigation *Automatic Direction Finders*

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (KHz) No. of bands	Type of tuning	Features included	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/ King DFS-43A $11,875	18-33/ .6	190-1860/ .5 KHz spacing	Gray code/ ARINC 429	ADF 1-r steering to HSI	Dig brg, Dichroic disp	Remote	11.9/ 3.1/ 2.5/2.5	2 yr/ C41c	Combined low-drag ADF loop & sense antenna.
Bendix/ King KR 86 $2,455	14/28*/ .5	200-1750/ 3	Mechanical	Blt-in test button & BFO	Indicator blt-in face-plate	Panel	6.6/ 2.6/ 6.25/ 9.05	1 yr/ p&1/ No	Many install kits avail. price incl ant & install kit; *Requires 28V kit. Tapered to fit top of panel.
Bendix/ King KR 87 $3,235	11-33/ .85 (14V) .42 (28V)	200-1799/ 5	Electronic	Stdby freq-fit & elapsed timers incl	Dig disp of act & stdby freq	Panel Sep 3" ind	6.7/ 1.38/ 6.31/ 11.23	1 yr/ p&1/ C41c	Price cinl K1227 ind. comb. sence & loop ant, & install kit, non-vol memory, coherent detection blt-in for greater range.
Bendix/ King KDF 806 $7,550	11-33/ 1.3	190-1799/ 5	Electronic	Coherent detect for more range	Dig disp of act/sby freq w/flip-flop xfer button	Remote	7.40/ 2.25/ 2.093/ 7.375	1 yr/ p&1/ C41c Class A	Incl install kit, ant & dig ctrl head. No ind. Non-vol mem. Remote flip-flop avail . Strappable to rec 2182 KHz. Act Freq can be tuned direct. Opt ctrl head for KNS 660 freq MGMT and 9 pilot prog channels for freq storage.
Collins ADF-60A $9,905	28/.6	190.0-1749.5/ 6	Digital	Stores 2 chan non-volatile memory; gas/ disp	N/A	Remote	8.7/ 3.13/ 2.5/ 6.5	1 yr/ C41c	Coherent detection, combined loop-sense and incl (ANT-60A); dual ant opt (ANT-60B); 3-wire or sin/cos RMI output avail. incl CTL-60 electronic ctrl, opt CTL-62 w/CAD-62 adapter for serial dig tuning & 6 stored chan.
Collins ADF-650A $3,745	14, 28*/ 1.0 (14V)	200-1799/ N/A	Digital, continuous	N/A	Rotating azimuth, int light	Panel	6.0/ 1.75/ 6.25/ 10.8	1 yr/ C41c	Incl ANT-650A combined loop-sense ant & IND-650A indicator; *Adapter, $100
Collins ADF-462 $9,580	28 0.6	190-1799/ 6	Digital	6 storable channels non-volatile memory; gas discharge disp	N/A	Remote	8.0/ 2.63/ 2.38/ 5.39	1 yr/ C41d	Blt-in diagnostics, compatible only with CSDB or ARINC 429 controls; digital signal processing; 2182 KHz emergency frequency; incl. CTL-62, CSDB ctrl and ANT 462A antenna; ANT-462B dual antenna optional.
Narco ADF-841 $2,795	11/.8- 23/.4	200-1799	Electronic	Combined loop-sense ant	Stdby freq fit & elapsed timers inc	Panel w/sep 3" indicator	2.7/ 1.5/ 6.25/ 10.25	1 yr/ 2 yr/ opt/ C41c Class A	Coherent detection for greater range

Navigation Distance Measuring Equipment

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	No. of channels	Type of display	Effective distance coverage Speed readout/TTS	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/ King DMS-44 $14,290	18-33/.7/ 325	252	Dichroic disp	0-300/ 0-999/ 0-19:59	Remote	7.7/ 1.5/ 3.2/ 2.5	2 yr/ C666	Triple scanning DME, disp N1 & N2 distance at once; outputs for ARINC 568, 429, 40 mv/nm & 40 bit serial FMS tuneable.
Bendix/ King KDM 706 $10,265	14 or 28V/ 1.7 (14),.8 (28)/ 250	200	Dig, gas discharge	389/ 0-999/ 0-99	Remote	5.5/ 5.25/ 2.5/ 11.8	1 yr/ C66a	Incl. KDI 572 ind; KDM 706 will drive DME of KPI 553A HSI and opt KDI 573 slaved ind.
Bendix/ King KDM 706A $12,170	28V/0.75 250	252	Dig, gas discharge	389/ 0-999/ 0-99	Remote	6.3/ 5/3/ 10	1 yr/ C66b	KDM 706 w/Arinc 429 & 568 interface.
Bendix/ King KN 62A $4,080	11-33/ 14V-1.07 28V-.535/ 100	200	Simultaneous dig disp of dist, GS & TTS	0-389/ 0-999kts/ 0-99 min	Panel	2.6/ 1.3/ 6.312/ 12.258	1 yr/ p&1/ C66a	All solid-state, int & remote chan capability.
Bendix/ King KN 63 $6,195	11-33/ 14V-1.21 28V-.60/ 100	200	Simultaneous disp dist, GS & TTS 0-99 min	0-389/ 0-999/	Remote	3.6/ 1.35/ 3.5/ 6.47	1 yr/ p&1/ Yes	All solid-state, incl. antenna & install kit. Accepts slip code. BCD and 2x5 channeling formats.
Bendix/ King KN 64 $1,965	11-33/ 14V-1.071 28V-.625/ 35	200	Simultaneous dig disp of dist, GS & TTS	0-389/ 0-999/ 0-99 min	Panel	2.6/ 1.3/ 6.312/ 12.258	1 yr/ p&1/ No	Solid-state, internal & remote channel capability. Price incl ant & install kit.
Bendix/ King KTU 709 $15,665	14 or 28V/ 1.7 (14) 7.5 (28)/ 250	252	Dig, gas discharge	389/ 0-999/ 0-99	Remote	5.8/ 6.25/ 3/11.8	1 yr/ C66b	Tacan brg info may be disp on conventional CDI/HSI to offer independent, non-VOR based brg info. Incl KDI 572 disp DIST, GS, TTS.
Collins DME-40 $14,405	28/1/ 300 (40 mv/nm)	252	Gas discharge	0-250/ 0-999/ 0-99	Remote	8.1/ 1.66/ 3.38/ 6.59	1 yr/ C66a	Distance accuracy: +/- 0.1nm or 0.01%; ARINC 568, pulse pair; incl IND-40 ind
Collins DME-42 $12,315	28/.8/ 300 (40 mv/nm)	252	Gas discharge	0-300/ 0-999/ 0-120	Remote	6.2/ 1.66/ 3.38/ 6.59	1 yr/ C66b	Disp ID: 2-4 letters incl 2-digit code diagnos; directly repl DME-40; trks 3 chan at once if used w/CTL-32 & IND-42A (CTL-32 ctrls nav rcvr); serial dig, 2x5 tuning; dig signal processing; echo monitor; ARINC 568B, serial dig; incl IND-42A ind.
Collins DME-450 $6,435	14 or 28V/ 2.2a (14V) 100w (40mv/nm)	200	Incand filament	0-199.9/ 0-399/ 0-120	Remote	6.1/ 1.35/ 3.5/ 5.3	1 yr/ C66a	Dist accuracy: +/- 0.1nm or 1%; incl ANT-451 ant & IND-450 ind.
Collins DME-451 $7,800	14 or 28V/ 2.2a (14V) 100w (40 mv/nm)	200	Incand filament	0-199.9/ 0-399/ 0-120	Remote	6.4/ 3.26/ 3.26/ 5.4	1 yr/ C66a	Dist accuracy: +/- 0.1nm or 1% blt-in timer based on GMT clock; incl ANT-451 ant & IND-451 ind.
Collins DME-442 $13,815	28 0.8 300	252	Gas discharge	0-300/ 0-999/ 0-120	Remote	6.2/ 1.66/ 3.38/ 6.59	1 yr/ C66b	Tracks three channels simultaneously when used with CTL-32, IND-42A; decodes and displays station ident; blt-in diagnos, compatible only with CSDB or ARINC 429 ctrls and displays; digital signal processing, echo monitor; includes IND-42A.
Narco DME-890 $2,150	11-32V/ 1.4a/ 25w nom.	200	Digital, gas discharge	160/ 600 kts/ 0-99	Panel	3.9/ 1.5/ 6.25/ 11	1 yr/ 2 yr/ opt. No	Remote channeling capability simultaneous display of DIST, GS & TTS. Price incl ant.
Narco IDME-891 $2,195	11-32/ 1.4/ 25w nom.	200	Digital, gas discharge	160/ 600 kts/ N/A	Panel, 3" inst hole	2.6/ 3.19/ 3.19/ 9.14	1 yr/ 2 yr/ opt. No	Incl VOR/ILS ind. & marker lights. Compatible w/Narco MK-12D, NAV-825, NS-801 RNAV. *Package price with MK-12D, $4,995.

Navigation Glideslope Receivers

Manufacturer/Model Price	Input (VDC/amps)	No. of channels	Receiver interface	Display interface	Weight	Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/ King KN 75 $1,025	14/2-V/.72	40	"Universal" chan capability	HSI/CDI	1.6	Remote	1 yr/ p&1/ Yes	Remote mounted. Universal channel allows channeling of KN75 from 2x5, KING slip code.
Collins GLS-350 $1,250	14/0.7	40	VIR-351	HSI, CDI	2.0	5/1/ 10.7	1 yr/ C34c	N/A

Navigation Horizontal Situation Indicators

Manufacturer/Model Price	Functions	Display/Rcvr RNAV interface	Flight director interface A/P interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aeronetics 8000 System $7,370	L-R dev, T/F, Nav flag, GS dev, GS flag, OLS, HDG flag, card	N/A/ Std ARINC input	AC synchro output/ AC synchro output	2.9/ 3.21/ 3.21/ 8	2 yr/ C6c, C34c, C36c, C40b	Price incl remote DG & flux valve 8000 sys features "Automatic emergency mode" operation.
Aeronetics 8131 $4,620	L-R dev, T/F, Nav flag, GS dev, GS flag, OBS, HDG card, HDG flag	N/A/ Std ARINC input	AC synchro output/ AC synchro output	2.8/ 3.21/ 3.21/ 8	2 yr/ C6c, C34c, C36c, C40b	Accepts standard HDG input from gyro.
Aeronetics 421 $7,800 to- $9,520	L-R dev, T/F, Nav flag, GS dev, GS flag, OBS, HDG flag, HDG card	Some models digital incand disp of CRS, DME Bearing/Std Arinc	AC synchro output/ AC synchro output	4.5/ 3.975/ 3.975/ 8.120	2 yr/ C6c, C34c, C36c, C40b, C66a	Accepts standard ARINC gyro inputs from 9100 gyro or other standard gyro DME accepts ARINC 568 or King serial.
Astronautics P/N 125810 On Request	Disp hdg, 2 brg, hdg select course, DME, GS	HSI 5"/ Yes	Yes/ Yes	6.5/ 4.25/ 5/7.5	1 yr/ 1,000 hrs/ Yes	Typical of 5" HSIs, many others available.
Astronautics P/N 127450 On Request	Disp hdg, 2 brg, hdg select course, DME, GS	HSI 4"/ Yes	Yes	7.12/ 4.15/ 4.15/ 8.94	1 yr/ 1,000 hrs/ Yes	Typical of 4" HSIs, many others available.
Astronautics P/N 132370 On Request	Disp hdg, 1 brg, hdg select course, DME	HSI 3"/ Yes	Yes/ Yes	6/3.25/ 3.25/ 8.60	1 yr/ 1,000 hrs/ Yes	Typical of 3" HSIs, many others available.
Bendix/King KCS 55A $6,880	VOR/GS/LOC	Deviation needle/ KNS80, 81, KN53, KX155, 165, 175B, KNR634/Yes	Yes/ Yes	9.4/ 3.25/ 3.25/ 7.5	2 yr/ p&1/ Yes	Incl remote electric gyro. Opt helicopter HSI avail w/xtra GS dampening. Opt HSI avail w/ heading bootstrap. Price incl total slaved compass system.
Bendix/King KPI 552 $10,425	VOR/GS/LOC	Deviation needle/ KNR665A, 634, KN 53, KX155, 165, 175B, KNS 80, 81, 81-30/Yes	Yes/ Yes	5.0/ 3.75/ 4.25/ 8.75	1 yr/ p&1/ Yes	Requires remote compass input. Flavors avail. with or without blt-in RMI pointers.
Bendix/King KPI 552B $14,905	VOR/GS/LOC	Deviation needle/ same as KPI 552 but incls 3 wire ("XYZ") course slew for use w/ nav mgmt sys, such as KNS 660	Yes/ Yes	5.0/ 3.75/ 3.25/ 7.5	2 yr/ p&1/ Yes	Requires remote compass input. 3 wire ("XYZ") RMI only.

Navigation Horizontal Situation Indicators (continued)

Manufacturer/Model Price	Functions	Display/Rcvr RNAV interface	Flight director interface A/P interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/King KPI 553A $12,970	VOR/GS/LOC	Deviation needle, dig DME dist, grd spd, TTS radar alt/ KNR 665A, 634, KN 53, KX 155, 165, KNS 81, 81-30/Yes	Yes/ Yes	5.5/ 4.25/ 4.25/ 8.75	2 yr/ p&1/ Yes	Incl dig readout dist, grdspd, TTS or radar alt, req remote compass input.
Bendix/King KPI 553B $14,905	VOR/LOC/GS RMI/Long range NAV	Deviation needle, dig DME, dis, grdsp TTS, radar alt/ KNS 660	Yes/ Yes	5.5/ 4.25/ 4.25/ 9.25	2 yr/ p&1/ Yes	Requires remote compass input. expanded dis readout for long range navigation system.
Collins EHSI-74 $20,050 $21,565	VOR/LOC/GS/HGD/VLF Omega, Loran	Color CRT/ Yes/ Shadow Mask	HDG, Course error Yes	10.2/ 4.2/ 4.2/ 9.5	1 yr/ Caps avai C6c, C40b C52a	More than 750 systems in operation. Avail in several I/O configurations. Rose, ARC & Map modes.
Honeywell RD-450 On Request	VOR,LOC,GS, slaved gyro	N/A/ Yes	Yes/ Yes	3.6/ 4.06/ 4.06/ 8.66	1 yr/ Yes	Local ctrl, comparator monitor output.
Honeywell RD-550 On Request	VOR,LOC,GS slaved gyro	Dig DME crs, RMI pointer/ ARINC 561, 568, DME	Yes/ Yes	5.9/ 4.25/ 4.25/ 8	1 yr/ Yes	Local & remote ctrls avail. RMI pointer, digital dist. and course display.
Honeywell RD-650 On Request	VOR,LOC,GS slaved gyro	Dig DME, crs, RMI source sel; NAV source annun/ ARINC 561, 568, DME	Yes/ Yes	7.3/ 5.4/ 25/9	1 yr/ Yes	Local & remote ctrls avail. RMI pointer, digital dist. and course display, nav. Source annuciators.

Navigation Long Range Navigation Systems

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Offshore Advanced Navigation 7000 $14,300	28 VDC/ 1.5a	100 KHz	200/ Fiber optic	Cross chain Ops, Flt. Plan computer. Auto Wind Computation, Pseudo Vortac mode, 99 route storage	3/Remote	20/4.5/ 5.75/ 6.50	1 yr/ Yes C60a	IFR Cert enroute & terminal for NAS inci Alaska. EFIS compatible.
Arnav R-15 $1,695	10-35/1	100KHz	200/LCD	Includes NMS , MSA, MESA, Extended Range, all chains, brg/dist, GS/ETE, TK/DTK, auto magvar, internal CDI	Unit, ant w/ preamp/panel	2.13/2.00 6.00/10.7	18 mth	Also available w/database and optional LED display. DMS interfaces to ELS and FC-10 fuel computer
Arnav R-21 NMS $2,495	10-35/1	100 KHz	200/LCD	DMS is opt. R-21 NMS unit incl wind aloft, true airspeed. absolute fuel rge and remote ranging.; Brg/Dis to WP, all chains, GS/ETE, TK/DTK auto MAGVAR, int CDI, 200 WP, alpha/num disp	Unit, ant w/ preamp/panel	4.6/3.25/ 6.25/10.7	18 mth	Includes extended range.

Navigation *Long Range Navigation Systems (continued)*

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Arnav **R-21 DMS** **$2,795**	10-35/1	100 KHz	150/LED	Incl. DMS, NMS, MSA, MESA Brg/dis to WP, all chains GS/ETE, TK/DTK, auto MAGVAR, int CDI 200 WP, alpha/num dis	Unit, ant w/ preamp/panel	5.1/3.25/ 6.25/10.7	18 mth	DMS provides 10,000 airports, VOR's & NDB's in permanent memory accessed by keying in 3 letter FAA designator. Also gives ATIS, tower or unicom and navaid freq; airport and navaid elevation; whether airport is IFR or VFR.
Arnav **R-30A** **$3,995**	10-35/1	100 KHz	150/LED	Incl. DMS, NMS, MSA,MESA Extended Range, all chains, brg/dist, GS/ETE/ETA, TK/DTK, automagvar, internal CDI, warnings for TCA, ARSA, MOA, restricted, prohibited and alert areas	Unit, ant w/ preamp/panel	2.65/2.00 6.00/10.7	18 mth	Interfaces to the ELS-10 and FC-10 fuel computer
Arnav **R-40** **$4,995**	10-35/1	100 KHz	200/ Alpha-numeric	All chains, rt plan, OBS mode, pres pos, grd trk/ spd, dis/time, xtrk/dtk, brg/dis, partrk, auto MAGVAR, CDI sens, hld mode 200 WP, alpha/num dis	Unit/preamp/ antenna/ panel	4.8/3.25/ 6.25/10.7	18 mth/ Yes	IFR cert, VFR ext range mode opt for marginal Loran areas NMS opt. Interface to silver fueltron. Avail w/database IFR cert.
Arnav **R-60** **$9,495**	10-35/1	100 KHz	200/ Alpha-numeric	All chains, brg/dis btwn WP, OBS mode, pres pos, dis/brg, trk/dtk, GS/ETE, auto MAGVAR, CDI sens, X range sel, 200 WP	Rcvr, ctrl disp. preamp, ant/Ctrl disp panel	CDU: 2.06 REC: 5.375 3.75/5.75 5.12	18 mth/ pend	Designed for helicopter install. VFR ext range mode opt for marginal Loran areas. Alpha/num disp. Optional database.
Bendix/King **KNS 660** **$25,960**	28/1.77	200 VOR/ DME, 252 TACAN. All Omega	200-600/ CRT	Nav Mgmt Sys Great circle enroute, appr & VNAV. Man/ autosel sens & WP seq. Database incl. Stores 100 flight plans/800 WP. Drives EFIS & radar graphics. Freq mgmt w/ Gold Crown III	2/Remote	22 + sensors/ 10.8/ 5.75/8.	2 yr/ p&1/ Yes	Sensors incl VOR/DME, TACAN, Omega/VLF (opt $17,280). Compat w/Honeywell laser INS, & future MLS & GPS. 2CDU's avail. Scans up to 10 DME's for pos comp
Canadian Marconi **CMA-734** **$35,185**	18-32/2	10.2, 11.3 13.6 KHz + 15-30KHzVLF	4000/ 2-line Alpha-numeric	All norm nav parameters displayed, autopilot coupling & XTRK dev outputs std, perm memory keep-alive for WP & GMT/DATE clock	2 + ant/Remote & panel	20.0/4.5/ 5.75/6.125	38 mth/ yes	Sar, Co. rts, etc. stores up to 99 WP/rt. RPU has internal VLF. TAS input std but not required. Withstands high vibra level, allowing hard mount in most helicopters
Canadian Marconi **CMA-734** **$24,764**	18-32/ 1.5	10.2, 11.3 13.6 KHz + 15-30 KHzVLF	891 (99x9)/ LCD	All norm nav parameters displayed, autopilot coupling & XTRK dev outputs std, perm memory keep-alive for WP & GMT/DATE clock	2 + ant/Remote & panel	17.2/3.75 5.75/2.375	38 mth/ Yes	Stores 99 rts of 9 WP ea, RPU has int. VLF, withstands high level vibra allowing hard mount in most helicopters, wide angle LCD/CDU. TAS input std but not req. ded high contrast display.
Collins **LRN-85T** **$52,340**	28/5	All VLF/ Omega	99/ Dig CDU	Date, ETA, GMT, pres pos lat/long storage, brg, dist. TTW, desired trk, xtrk wind. non-volatile WP memory. VOR/ DME offset, API & r deviation. ARINC BCD output grd spd & dist.	3/Remote	31.3/4.5/ 5.75/6.25	1 yr/ C94	Omega unique for fast sync & all freq for 250 nm relane freq-agile VLF SB trkg.
Foster **RNC601B** **$9,000**	18-32/ 1.0	VORTAC/ LORAN	250/LED	VORTAC-based long rng nav w/stor cap for 26 flight plans. IFR for enroute and approach.	1	3.25/ 3-ATI	1 yr C40b, C36c C66b,C60a	Interfaces w/most VOR/ DME, HSI & autopilots.
Foster **LNS616B** **$22,600**	18-32/	VORTAC/ LORAN	250/LED	Stores 26 flight plans of 10 wpts each. Database with all airports, and Vortacs. Auto channels the DME670 and uses TACAN position	3	13/ 3-ATI	1 yr/ C40b,C36c C66b,C60a	Uses VORTAC, TACAN and Loran C inputs. Interfaces with most radar and EFIS. Price incl 1 yr database subscription

Navigation Long Range Navigation Systems (continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Foster **RNC601A** **$12,700**	18-32/ .75	N/A	234/LED	Storage cap for 26 flight plans, 234 WP and 150 pilot-programmed WP ref plus all U.S. VOR, VOR/DME & VORTAC's by lat/long, freq, mag variation and elevation	2/Remote	3.25/ 3-ATI/ 10.04D	1 yr/ C40b, C36c, C66b, C60a	VORTAC-based long rng nav w/U.S. VORTAC Database & EFIS interface Unit (D1681). First yr database update subscription is free.
Foster **LNS616A** **$20,580**	18-32/ .75	All Loran -C stations VORTAC interface	234/LED	Stores 26 flt plans, 234 WP & 150 pilot-programmed WP ref, plus all U.S. VOR, VOR/DME, & VORTAC's. Incl VNAV advisory & LR651 Loran-C rcvr	3/Remote	13/ 3-ATI/ 10.04D	1 yr/ C40b, C36c, C66b, C60a	Uses VORTAC, Loran-C or both to derive pos info Incl VORTAC database & EFIS interface Unit (D1681). First yr database update subscription is free.
Foster **LRN500** **$1,495**	8-32/ @ 7w	Loran-C	234/LCD	Present pos direct, VNAV nearest airport, ETE, Trk error, "Take-it-home" programming feat. Pos. disp. in rad/dist from nearest VORTAC or in lat/long IFR approved	1/Panel	2.75/2/ 6.31/11.94	1 yr/ Yes	*Incl. ant/preamp. Blt-in pilot-replaceable data cartridge w/all VOR's, VOR/DME's, VORTAC's TACAN's and hard surfaced runways over 3,500.
Litton **LTR-81-01** **$42,900**	115VAC/ 400Hz	N/A	N/A Works with FMS	Dig ARINC 429-Att, mag hdg, angular rates, accel, iner Alt. w/valid VOR/DME it provides GT, GS, DA horiz vel, flt path angle, wind-spd & direction: potent vert. spd. Ouptuts: pitch, roll & mag hdg in analog.	1/Rack	28.4/N/A	1 yr N/A	Single AHRU replaces vert. gyros., instr. ampl. Body rate gyros, body accel. and compass couplers. MTBF-7,000 hrs, VG/DG instr. ampl. MTBF 1,650 hrs. Gimbals & assoc mech & elect. Components eliminated enhancing maintainability.
Litton **LTN-211** **$33,530**	115VAC/ 400Hz	10.2-25 KHz	9/Dig CDU	Auto prog VLF on 4th omega freq; auto sync, station select, trk mag and true hdg, rem ranging, wind update, malfunc code readout, self-test operator error detect. Rho-Rho-Rho operation, auto GMT & date. Three freq sys available.	2 plus ant/ Pedestal & rack	39.8/N/A	1 yr ARINC 599/ 575 dig bus	HS1 synchro & dig outputs, ARINC 599 interface w/color radar, autopilot FD & HSI, nite vision goggle capability.
Litton **LTN-3100** **$19,500**	11-33/ 60w	10-30/ Omega & VLF	99 non-volatile Dig CDU	Auto sync & station select, trk, mag & true hdg, rem ranging, wind update, malfunc code readout, self-test, operator error detect.	2 plus E field ant/ Pedestal & rack	20/2.25/ 5.75/6.4	1 yr N/A	Stores up to 16 rts of 9 WP ea. Std ARINC 429 & 575 Nav data to color weather-radar nav disp, integ lateral steering to autopilot. High-intensity LED, 36 char, 2 line rotatable disp, rail mounts in pedestal.
Litton **LTN-91** **$115,120**	115VAC/ 400Hz	N/A	N/A	Inertial ref sys in support of a flight mgmt sys 3 ARINC 429 data buses provide: PP, GS, pitch roll & hdg rates, body pitch & accel rates, along trk, xtrk & vert accel, trk angle & rate, alt. wind drift ang. hdg, speeds, descrete	3/N/A	49/4.5/ 5.75/6	1 yr N/A	D to A, laser gyro stabilizer strapdown inertial ref sys for semi-analog aircraft ARINC 704 10 MCU configuration.
Litton **LTN-92** **On Request**	115VAC/ 400Hz 28 VDC	N/A	99-200/ Dig LED CDU	All the functions of a full inertial nav w/increased computer and data storage capacity.	3/Pedestal & rack	N/A 4.5/ 5.75/7.	N/A	Laser gyro stabilized strapdown inertial nav sys for semianalog aircraft. A direct replacement for existing INS units.

Navigation Long Range Navigation Systems (continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Litton **LTN-72RL** **$155,545**	115VAC/ 400Hz	N/A	99 + PP Dig LED CDU	Auto data entry, wind blanking, var let switching, action malf codes, parallel trk; outputs to Flt Dir, radar/autopilots, dig air data & dig VOR, & all ARINC analog TAS computers. ARINC 561 ARINC 575.	3/Pedestal & rack	62/4.5/ 5.75/7.6	1 yr/ C4c, C5c11, C6c	Features bulk storage of NAV data in elect alterable mem for in definate retention w/out power, avail w/Vandling interface for database. INS & RNAV req for enrt, term and appr.
Litton **LTN-90** **$115,120**	115VAC/ 400Hz 28VDC	N/A	N/A Dig LED ISDU	Inertial ref sys in support of a flight-mgmt sys 3 ARINC 429 data buses provide: PP, GS, pitch roll & hdg rates, body pitch & accel rates, along trk, xtrk & vert accel, trk angle & rate, Alt Wind drift ang, hdg, speeds, descrete	3/Pedestal & rack	50/4.5/ 5.75/6	1 yr/ C4c, C5c, C6c	All dig, laser gyro stabilized strapdown inertial ref sys for all dig aircraft. ARNIC 704 10 MCU configuration.
Litton **LTN-72** **$139,500**	115VAC/ 400Hz	N/A	9 + PP Incand dig CDU	Actual trk, trk ang error, xtrk & desired trk + access to computer in-flight for great circle dist computation avionics interface is full ARINC 561 & ARINC 575	3/Pedestal & rack	61/4.5/ 5.75/7.6	1 yr/ C4c, C5cII, C6c	Sys uses gyro-stabilized platform to sense AC accelerations. Out puts accurate pres pos (Lat/Lon) data, nav infor, steering command & ang pitch, roll & hdg data.
Litton **LTN-72R** **$141,770**	115VAC/ 400Hz	N/A	9 + PP Incand Dig CDU	RNAV cert for enrt, term & appr. Provides xtrk gnd spd, pos of both updated & un-updataed WP, VORTAC pos, freq, & elevation update code, mag var, DTG, DT, status, self test, malf codes. Access to computer during flight.	3/Pedestal & rack	61/4.5/ 5.75/7.6	1 yr/ C4c, C5cII, C6c,	ARINC 561 & 575. May be operated as RNAV or as an INS. As an area NAV sys, using range & brg data from sel VOR/DME/ DME stations, it provides highly accurate navigation independent of time & drift errors.
II Morrow **Apollo I** **602** **$995**	6.5-48/ 1.54-.21	100 KHz	200/LED numeric	Ring & brg to, from & between WP, gnd trk ang, gnd spd, est time enrt, xtrk error	2/Panel	3.75/2/ 6.25/11	26 mo./ Yes	Compact. Only 2" panel height req. Video training film avail. Complete w/A-16 ant.
II Morrow **Apollo II** **604FB** **$2,795**	6.5-48/ 2.31	100 KHz	7000+ Lg Hi-intensity alpha-numeric	All nav data of 612. Database cartridge includes: airport ID, name, city, state, elevation, tower, approach, localizer, ATIS, Unicom, VOR, NDB, & ground freqs. 2 longest runways with light & services availability.	2/Panel	3.187/2/ 6.25/11.2	26 mo./ No	Also available w/o database. Complete w/A-16 ant.
II Morrow **Apollo II** **612 IFR** **$3,295**	6.5-48/ 2.31	100 KHz	2,500 + Hi-int alpha numeric	Pre-prog WP sel, brg & rng to & from WP, gnd trk ang, gnd spd, est time enrt, xtrk error, desired trk, pres pos auto mag/var, CDI output, lat/long cal, auto secondary	2/Panel	3.75/2/ 6.25/11	26 mo./ Yes	Contains "Flybrary" 5 yr non-volatile mem, simplified controls, selectable parallel offset. Unit is IFR'd.
II Morrow **Apollo II** **612B** **$2,695**	6.5-48/ 2.31-.31	100 KHz	6,000 + Hi-int alpha numeric	Pre-prog WP sel, brg & rng to & from WP, gnd trk ang, gnd spd, est time enrt, xtrk error, desired trk, pres lat/long cal, auto secondary, emerg. search.	2/Panel	3.75/2/ 6.25/11	26 mo./ Yes	VFR only, contains "Flybrary" 5 yr non-volatile mem, simplified controls, selectable parallel offset. Complete w/A-16 ant.
II Morrow **Apollo** **612C** **$2,995**	6.5-48/ 2.31	100KHz	6,000 + hi-int alpha numeric	All features of 612B including Canada and V-Nav	2/Panel	3.5/ 3.25/ 3.25/ 10.1	26 mo./ No	Circular loran fits 3.25" round panel mt. Complete w/A-16 ant.
II Morrow **Apollo II** **614R** **$4,995**	6.5-48/ 2.54-.34	100 KHz	2,500 + Hi-int alpha numeric leds	Flybrary w/USA region. All functions of Model 612 including emerg. search.	3/Remote	CDU 1.51/ 2.25/5.0/ 4.6 RCU 2.76/ 6.3/1.8 11.25	26 mo./ Yes	Remote mounted RCU, compact CDU w/DZUS rail mounting. Complete w/A-17 high speed blade ant. To be IFR'd.

Navigation Long Range Navigation Systems (continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Teledyne TDL-711A $11,950	9-36/2	100 KHz	75/ Gas disp	Std nav output; dist, brg, xtk, dtk Lot, Lou, WP, plus master indep operation, flight planning, rad/dist WP input, LOFF data link	2/Rack & Panel	15/4.15/ 5.75/6.5	12/18 mth/ Submitted	LOFF compatible data link & ARINC 571 bus are standard features of the TDL-711A. RS-232 data bus is an opt. feature.
Terra TLC100 $1,095	14/.9	100 KHz	100/LED numeric	All chains, brg/dis btwn WP, auto MAGVAR, int CDI, xtrk/ dtk, sped, est time enrt.	1/Panel	3/2.0/ 6.25/10.8	3 yr/ No	Keyboard data entry, all nav data on 1 display.
Tracor TA 7880 $22,500	28/1.25	All Omega/ VLF	400 Color/ CRT 8-line 14 char	Auto date, GMT, pos (lat/ long), sync & stat/freq select. Brg hdg dist desired trk, trk, xtrk, selected xtrk, TAS, GS, ETA, ETE, wind, DA, per line pseudovor (rng/brg offset)-drives HSI/CDI/Flt director.	3/Remote	16/3.75/ 5.75/8.0	2 yr/ p&1/ Yes	All enrt nav info single disp pg. Use of color eliminates disp clutter. Fully alphanumeric keybd. Non-volatile mem stores up to 99 flt plans, 30,000 WP database. Plain lang diag for sys status and inst ck/out. IFR cert.
Universal Navigation UNS-1 FMS Monochrome $62,500 Color disp. $72,500	19-32V/ 2.1-2.3 amps	All Omega/ VLF and Loran-C chains	World-wide 40,000 Regional 22,000 CRT/CDU SIDs & STARS optional	Adv flt mgmt; VNAV; 3-D approach mode, fuel/ performance mgmt; database storage flexibility; unique LIST/Menu op pgm; analog/ digital output to flt guidance sys & radar, opt freq mgmt.	2/Remote w/pedestal display choice of CDU	mono 16.0 lbs/4.5/ 5.75/6.75 color 18.2 lbs/6.375/ 5.75/7.67	3 yr/ C66b, C94a, C115	Accepts multiple inertial. Omega/VLF and/or Loran-C sensor inputs, plus cont automatic DME/ DME/DME lat/lon. Prod one best comp pos. 200 rt storage. In cockpit database updating, and off-line flt planning cap.
Universal Navigation UNS-1 NMS Monochrome $30,500 Color disp. $40,500	19-32V/ 1.6 amps	All Omega/ VLF and Loran-C chains	World-wide 40,000 Regional 22,000, CRT/CDU	Adv nav mgmt; VNAV; 3-D approach mode, fuel/ performance mgmt; database storage flexibility; unique LIST/Menu op pgm; analog/ digital output to flt guidance sys & radar, opt freq mgmt.	2/Remote w/pedestal display choice of CDU	mono 11.5 lbs/4.5/ 5.75/6.75 color 14.2 lbs/6.375/ 5.75/7.67	3 yr/ C66b, C94a, C115	Accepts multiple inertial. Omega/VLF and/or Loran-C sensor inputs, plus cont automatic DME/ DME/DME lat/lon. Prod one best comp pos. 200 rt storage. In cockpit database updating, and off-line flt planning cap.

Navigation Marker Beacon Receivers

Manufacturer/Model Price	Input (VDC/amps)	Features included	Type indication	Installation	Weight	Panel size (H)(W)(D)	Warranty	TSO	Remarks
Bendix/ King KR 21 $560	14/28V/.30	Auto dimming of blt-in lites, hi-lo sense switch blt-in	3 lites + audio outputs	Panel	0.60	1.05/ 3.2/ 5.667	1 yr p&1	Yes	Separate, self-contained unit, includes lights.
Bendix/ King KR 22 $435	14/28V/.5	Blt-in hi-lo lite intensity switch. MKB	3 lites + audio outputs	Panel	.40	1.2/3.3/ 7.75	1 yr p&1	No	Self-contained unit, momentary lite test when turned on. Includes lights.
Collins MKR-350 $545	14.28/0.3	Hi & lo sens ctrl	Tone, lites	Panel	0.6	1.0/3.1/ 5.7	1 yr	C35d	N/A
Mentor APM-1 $712	14/28/1.5	Hi-lo sens auto dim	Tones, lites	Panel	1.5	1.6/6.3/ 7.4	1 yr	No	Included with full audio panel intercom option.
Terra TM23 $275	14/28/.15	Auto dimming of lights, hi-lo sens switch, auto muting	Tone, lites	Panel	.48	1.2/3.2/ 5.5	3 yr ext.	No	Self-contained unit, momentory lite test vertical or horizontal mounting.

Navigation Radio Magnetic Indicators

Manufacturer/Model Price	Input (VDC/amps)	No. of pointers Internal RMI converter	Switching capability	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aeronetics 3137 $4,000	28VDC/0.5, 26VAC/0.5	2/ No	Yes, 2 VOR, 2 ADF	Color coded switches & pointers, hdg flag	Std ARINC ATI-3 per 408	2.5/ 3.21/ 3.21/6.7	2 yr/ C6c	3,100 avail in various config to accept any radio outputs. Also avail w/o switches.
Aeronetics 7100 $5,360	28/1.1	2/ Yes	Yes, 2 ADFS, 2 VORS	Color coded switches & pointers, hdg flag	Remote box	4.3/ 3.21/ 3.21/3.83	2 yr/ C6c	Accepts VOR comp & x,y,z, or DC SIN/COS ADF, opt AC inverter provides sys AC power.
Aeronetics 3337 $4,320	28/.75	2/ No	Yes, 2 VOR, 2 ADF	Color coded switches & pointers, hdg flag	Std ARINC AT1-3 per 408	2.5/ 3.21/ 3.21/7.56	2 yr/ C6c	Accepts: ADF x,y,z, or DC SIN/COS +/-3V or +/-8.VOR x,y,z or AC SIN/COS sq wave.
Aeronetics BDI-303A $12,800	28/.75	2/ No	Yes, 2 VOR, 2 ADF	Dual VOR/ADF, Dual DME distance DME hold freq	ATI 3x4	3.5/ 4.0/ 3.0/7.0	2 yr/ C6c C66b	Full ARINC 428 interface. Standby compass mode with flux valve input.
Astronautics P/N 127700 On Request	115/400 Hz	2/ No	Yes	HDG Dual pointers panel	N/A 3.25/ 3.25/5	2.2/ 1,000 hrs/Yes	1yr or glass	Hermetically sealed, anti-reflective.
Astronautics P/N 134650 On Request	115/400 Hz	2/ No	No	All servos 3 fail flags	ARINC ATI-3	3.5/ 3.25/ 3.25/7.5	1yr or 1,000 hrs/Yes	Bootstrap azimuth output, DC SIN/COS input ADF, AC SIN/COS VOR input.
AIM 400CEL $4,600	14/28VDC/.9 115VAC/ 400HZ/16VA	0/ N/A	No	HDG	Panel	3.8/ 3.26/ 3.38/8.7	1 yr C6c	Has ARINC bootstrap synchro, avail in airdriven system.
AIM 800CEL(D) $5,350	14/28VDC/.9 115VAC/ 400HZ/16VA	2/ N/A	No	HDG/RMI/ADF	Panel	3.8/ 3.26/ 3.38/8.7	1 yr C6c	Has ARINC bootstrap.
AIM 800CEL(S) $5,150	14/28VDC/.9 115VAC/ 400HZ/16VA	1/ N/A	No	HDG/RMI	Panel	3.8/ 3.26/ 3.38/8.7	1 yr C6c	Has ARINC bootstrap Synchro, avail in airdriven system.
Bendix/King KI 229 $3,705	14/28/0.75	2/ Yes	Can switch fr VOR to #2 ADF w/ext switch	Separate needle for ADF & VOR	3" round or front-mtd in 3 ATI	2.8/ 3.26/ 3.26/8.33	1 yr/ p&1/ Yes	Requires 4.0 VA-26VAC power + 14 or 28 VDC. Requires bootstrap from HSI.
Bendix/King KDI 582 $4,570	28/0.4	2/ Yes	Yes	Needles switch betw ADF, VOR	Front avail in 3 ATI hole	3.0/ 3.26/ 3.26/8.38	1 yr/ p&1/ Yes	Req 6.0 VA-26 VAC power + 28 VDC. Accepts AC or DC sin/cos, serial & VIR composite inputs.
Collins BDI-36 $9,945	28/0.8	2/ N/A	ADF, VOR	Dual DME dist disp; pushbutton switch of pointers to ADF/VOR	Panel	3.5/ 4.2/ 3.4/ 7.3	1 yr/ C6c	Accepts SIN/COS or 3-wire synchro ADF & VOR inputs; pointers independent use split 400 Hz power sources; opt bootstrap compass xmtr, integral power supply & servo amp.
Collins RMI-30 $4,350	28/0.6	2/ N/A	ADF, VOR	Pushbutton pointers switch ADF/VOR	Panel	2.8/ 3.4/ 3.4/ 7.3	1 yr/ C6c	Accepts 3-wire synchro ADF input & SIN/COS VOR input, bootstrap compass xmtr integral power supply & servo amp.
Collins RMI-36 $6,175	28/0.6	2/ N/A	ADF, VOR	Pushbutton pointers switch ADF/VOR	Panel	2.8/ 3.4/ 3.4/ 7.3	1 yr/ C6c	Accepts SIN/COS or 3-wire synchro ADF & VOR inputs pntrs independent use split 400 Hz power sources opt bootstrap compass xmtr, integral power supply & servo amp.
Honeywell RH-404 On Request	28/5.6	2/ No	No	HDG, RMI	Panel	3.2/3.2/ 3.2/6.5	1 yr/ Yes	Dual bearing pointers.

Navigation Radio Magnetic Indicators (continued)

Manufacturer/Model Price	Input (VDC/amps)	No. of pointers Internal RMI converter	Switching capability	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Honeywell RH-405 On Request	28/5.6	2/ No	No	HDG	Panel	3.2/3.2/ 3.5/6.5	1 yr/ Yes	Dual bearing pointers contains heading output.
Honeywell RH-444 On Request	28/5.6	2/ No	Yes	HDG	Panel	3.2/3.2/ 3.2/6.5	1 yr/ Yes	Dual bearing pointers w/push-button select.
Honeywell RH-445 On Request	28/5.6	2/ No	Yes	HDG	Panel	3.2/3.2/ 3.2/6.5	1 yr/ Yes	Dual bearing pointers w/push-button select and heading output.

Navigation VHF Comm/Nav Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range Spacing (KHz)	No. of channels	Component independence	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Bendix/King KX 155 $3,095 (package pricing available)	14/28/ 14V-7.5 28V-4.5/ 10	118-135.975 Comm 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Dig disp of act/sby freq & freq flip-flop of both Nav & Com audio leveling	Panel	5.3/2/ 6.25/ 10.16	1 yr/ p&l/ Yes	Incl install kit. Many versions avail. Opt incl GS, audio amp, & wider Com rcvr bandwidth for int'l use. Rem Nav & Com flip-flop opt. 3,620 w/slidescope
Bendix/King KX 165 $4,685	14/28/ 14V-7.5 28V-4.5/ 10	108-135.975 Comm 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Dig disp of act/sby Com & Nav freq, flip-flop of act/sby freg, dig radial	Panel	5.65/2/ 6.25/ 10.16	1 yr/ p&l/ C37b	5,350w/GS, non-volatile memory. Remote Nav & Com flip-flop capability.
Narco MK 12D $2,595	14 or 28/ 1 @ 14, .5 @ 28/ 8 nom	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Simultaneous disp of ACT & standby freq.	Panel	4.1/2.5/ 6.25/11	1 yr, 2 yr opt/ C34c, C36c, C37b, C38b, C4a	Incl blt-in VOR/LOC conv & DME chan (2x5) use w/ID-824, 825 or IDME-891 + $500 for GS.
Narco HT-830 $695	9.5V/ 2 watt/ 2(6pep)	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	No	Built-in digital	None Hand held port	2/2.5/ 6.25/11	1 yr/ No	Ideal for emergency back-up.
Terra TXN 920 $1,265	14/2.5 5	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Pushbutton tuning manual and auto squelch, audio level	Panel	2.15/ [illegible]15/ 6.25/9.5	3 yr ext/ No	Incl install kit, GS opt. Reqs GS for DME channeling.
Terra TXN 960 $1,795	14/2.5/ 5	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Built-in OBS electronic course deviation	Panel	3.7/3.3/ 6.25/10.4	3 yr ext/ No	Incl install kit, push-button tuning, opt GS.

Navigation *VHF Navigation Receivers*

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (MHz) No. of channels	Spacing (KHz)	Capabilities	Features included	Recommended CDI: Model Weight/Price	Installation/Weight Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aire-Sciences **R-552** **$820**	14/.85	108-117.95/ 200	N/A	Tunes an ext. GS receiver and DME	N/A	ECDI-554A 1.8 $995	Panel/ 2.9/3.2/ 2.6/11.5	1 yr/ No	N/A
Aire-Sciences **R-554** **$1,625**	14/.85	108-117.95/ 200	N/A	GS included	N/A	ECDI-554A 1.8 $995	Panel/ 3.5/3.2/ 2.6/11.5	1 yr/ No	N/A
Aire-Sciences **R-662** **$1,045**	14/.85	108-117.95/ 200	N/A	Tunes an ext. GS receiver and DME	N/A	CID-662 $975	Panel/ 2.9/3.2/ 2.6/11.5	1 yr/ C40a, C36c	N/A
Aire-Sciences **R-664** **$1,895**	14/.85	108-117.95/	N/A	GS included	N/A	CIO-664 $1,190	Panel/ 3.5/3.2/ 2.6/11.5	1 yr/ C40a, C36c, C34c	N/A
Bendix/King **KN 53** **$3,030**	14 or 28V/ 1 (14V), 25 (28V)	108-117.95/ 200 NAV, 40GS	150 GS	VOR, LOC GS, RMI	Act & stby, GS rcvr, DME chan	K1209/ 1.20 $800	Panel/ 3.1/1.3/ 6.25/ 9.75	1 yr/ C36c, C40a	Angular deviation, int lighted. Opt KN53 avail w/out glide slope. 2,420
Bendix/King **KNR 634** **$12,045**	28V/ 2.5	108-117.95/ 200 NAV, 40 GS	140 GS	VOR, LOC GS, RMI MKB	Act & stby, GS rcvr, MKB rcvr, flip-flop (incl rem)	K1206/ 1.3/ $1,475	Remote/ 3.25/ 3.25/ 8	1 yr/ C34c, C36c, C40a	Opt lessGS. Opt cont head for freq Mgmt for KNS660 and 9 pilot-programmable freq, storage.
Bendix/King **VNS-41A** **$11,610**	18-33/.8	108-117.95/ 200	50 KHz	GS & MKB std.	Dig RMI readout Dichroic display	Any std type	Remote/ 6.1/ 4/4/11	2 yr/ C40b, C36c, C34c, C35d	ARINC 429 interface/analog, AC/DC SIN/COS output. RAD/Brg digital readout; Incl mounting rack and connector kits.
Collins **VIR-30A** **$16,815**	28/0.8	108-117.95/ 200	50 KHz VOR/LOC, 150 KHz GS/MKB	GS & MKB	2 storable chan, non-volatile memory, gas/disp	RMI-30/ 2.8/ $4,350	Remote/ 6.8/ 3.13/ 2.5/6.5	1 yr/ C34c, C35d, C36c, C40a	RMI compatible incl CTL-30 elect ctrl 4 wire SIN/COS VOR output.
Collins **VIR-31A** **$17,260**	28/0.8	108-117.95/ 200	50 KHz VOR/LOC, 150 KHz GS/MKB	GS & MKB	2 storable chan, non-volatile memory, gas/disp	RMI-36/ 2.8/ $6,175	Remote/ 8.0/ 3.13/ 2.5/ 6.5	1 yr/ C34c, C35d, C36c, C40a	RMI compatible incl CTL-30 elect ctrl 3 wire synchro VOR output rotor modulation filt.
Collins **VIR-32** **$12,710**	28/1.5	108-117.95/ 200	50 KHz VOR/LOC 150 KHz GS/MKB	GS & MKB	6 storable chan, non-volatile memory, gas/disp	RMI-30/ 2.8/ $4,350	Remote/ 5.7/ 2.63/ 2.38/ 5.39	1 yr/ C34c, C35d, C36d, C40b	Repl VIR-30A directly RMI comp incl CTL-32 serial dig ctrl dig signal processing, blt-in diag rotor modulation filter opt (strap).
Collins **VIR-351** **$2,920**	14,28*/ (14V)/ 0.8	108-117.95/ 200	50 KHz	Tunes an ext. GS receiver & DME	Incand disp	IND-350A 1.5/ $1,250	Panel/ 2.7/ 2.6/ 3.12/ 12.45	1 yr/ C36c, C40a	Disp either freq or TO/FR, brg elect freq readout, ARINC 547*Adapter $100.
Collins **VIR-432** **$14,295**	28/1.5	108-117.95/ 200	50 KHz VOR/LOC 150 KHz GS/MKB	GS & MKB	6 storable chan, non-volatile memory, gas discharge display	Display on EHSI-85	Remote/ 5.7/ 2.63/ 2.38/ 5.39	1 yr/ C43d, C35d, C36d, C40b	Blt-in diagnostics compatible only with CSDB or ARINC 429 ctrl incl CTL-32 CSDB ctrl. dig sig processing, auto instrumentation for use with RMI, strappable rotor mod filtering.
Narco **NAV-824** **$1,895**	11-32/.5	108-117.95/ 200	50 KHz	VOR/LOC/ digital RMI both to & fr station	Act & stby freq DME chan	ID-824/.9/ $750	Panel/ 3.1/1.5/ 6.25/ 11	1 yr/ 2 yr opt.	Gas discharge disp, rectilinear needle movement.

Navigation *VHF Navigation Receivers (continued)*

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (MHz) No. of channels	Spacing (KHz)	Capabilities	Features included	Recommended CDI: Model Weight/Price	Installation/Weight Panel size (H)(W)(D)	Warranty/TSO	Remarks
Narco **NAV-825** **$2,395**	1-32/.5	108-117.95/ 200	50 KHz	VOR/LOC/GS digital RMI both to & fr station	Act & stby freq, DME chan	ID-825/ 1.0/ $850	Panel/ 3.3/1.5/ 6.25/ 11	1 yr 2 yr opt/ C34c, C36c, C40a	Gas discharge disp, rectilinear needle movement.
Terra **TN200** $595	14.4	108-117.95/ 200	50 KHz	VOR/LOC/GS	Pushbutton channeling	ANV STD/TRI- NAV 1.2 $945	Panel/ 1.5/1.6/ 3.2/9	3 yr, ext/ No	Incl install kit opt $495.

Weather Detection *Thunderstorm Detection Systems*

Manufacturer/Model Price	Input (VDC/amps)	Ranges (nm)	Scan width (degrees)	Display type/size	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Honeywell **LSZ-850** **$15,000**	28/1.1	Same as radar display to 100nm	120/360 degr on radar. 120 on EFIS 120/360 on MFD	EFIS, MFD Radar	8.3 lbs 1/2 3 ATI	1 yr/ pending	Integrates lightning data with radar data. Uses rate/area symbology. Lightning alert.
3M **Stormscope** **WX-12** **$11,975**	30-15/ 1-2/ 28w	Control by radar display, out to 200nm	360 degr in radar stby mode	Integrated with radar display	8.0/ 1.46/ 3.19/ 2.5	1 yr/ pending	Interface with Sperry Coloradar. Retrofittable on existing primus systems.
3M **Stormscope** **WX-11** **$10500**	30-10/ 1-2/ 28w	25, 50, 100, 200	360 degrees	CRT 3" dia	10.7/ 3.19/ 3.19/ 9.22	1 yr/ C110	Features incl hdg stab, image enhancement circuitry; max range on ground or in air, forward mode, all controls on disp, range memory, select gyro on/off line, new TSO.
3M **Stormscope** **WX-10A** **$8,950**	30-10/ 1-2/ 28w	25, 50, 100, 200	360 degrees	CRT 3" dia	10.3/ 3.19/ 3.19/ 9.22	1 yr/ C110	Features incl image enhancement circuitry; max range on ground or in air, forward mode, all controls on disp, range memory; new TSO.
3M **Stormscope** **WX-8** **$3,975**	30-10/ .51	100	135 degrees	LCD 3" dia	4/3.19/ 3.19/ 9.22	1 yr/ N/A	Max range on ground or in air, single panel mounted unit/display, 3 color LCD.

Engine Manufacturers' Specification Guide

Single Engine Piston

Manufacturer/Model	Turbocharged	Max T/O(hp)	Max trans. rating(hp)	Fuel cons. @ 75% rated power(gph)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Textron Lycoming, Model HIO-360-F1AD								
Enstrom F-28F	Yes	225	225	12	12,000	293	31.36/34.25/19.97	Weight is less optional starter and accessory equipment.
Enstrom 280F Shark	Yes	225	225	12	12,000	293	31.36/34.25/19.97	Weight is less optional starter and accessory equipment.
Enstrom 280FX	Yes	225	225	12	12,000	293	31.36/34.25/19.97	Weight is less optional starter and accessory equipment.
Textron Lycoming, Model HIO-360-D1A								
Schweizer/Hughes 300C	No	190	190	12	10,100	321	35.62/35.25/19.48	Weight is less optional starter and accessory equipment.
Textron Lycoming, Model 0-320-B2C								
Robinson R22 Alpha	No	160	124	10	14,000	255	29.56/32.24/22.99	Weight is less optional starter and accessory equipment.

Single Engine Turbine

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Allison, Model 250-C20B								
Bell 47 Conversions	420	270	260	.650	6,000	158	38.8/19.0/23.2	
Hiller RH-100	420	274	233	.650	18,650	158	38.8/19.0/23.2	
McDonnell Douglas 500E	420	375	350	.650	15,000	158	38.8/19.0/23.2	
Soloy Conversion UH12ET	420	305	305	.650	12,000	158	38.8/19.0/23.2	
Allison, Model 250-C20J								
Bell 206 JetRanger III	420	317	270	.650	13,500	158	38.8/19.0/23.2	
Allison, Model 250-C28B								
Bell LongRanger I	500	435	N/A	.606	N/A	238	46.9/21.9/25.1	
Allison, Model 250-C30								
McDonnell Douglas 530F	650	425	350	.592	18,000	249	40.9/21.9/25.1	
Allison, Model 250-C30P								
Bell LongRanger III	650	435	370	.592	20,000	245	40.9/21.9/25.1	
Textron Lycoming, Model LTS 101-600A-3								
Aerospatiale AStar	615	483	590	.580	13,450	253	30.93/22.38/18.54	Engine offers design simplicity, easy maintenance and cost effective performance.
Pratt & Whitney, Model PW 205-B								
MBB B0105LS	590	N/A	N/A	.556	N/A	220	35.7/23.3/21.2	2 1/2 minute rating at 625 shp, full authority digital electronic control.
Turbomeca, Arriel 1B								
Aerospatiale AS 350B	641	483	483	.581	15,600	253	44.2/18.6/24.5	Certification 1977.

Single Engine Turbine *(continued)*

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Turbomeca, Arriel 1D								
Aerospatiale AS 350 B1/L1	684	N/A	585	.591	N/A	253	44.2/18.6/24.5	Certification 1985.
Turbomeca, Model Artouste IIIB								
Aerospatiale Lama	590	592	592	.659	17,720	N/A	N/A	

Multi-Engine Turbine

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)
Allison, Model 250-C20B							
Agusta 109A	840	740	740 520	.650	15,000	158	38.8/19.0/23.2
MBB BO 105	840	690	690 380	.650	17,000	158	38.8/19.0/23.2
Allison, Model 250-C20F							
Aerospatiale AS355	840	678	678 440	.650	12,000	158	38.8/19.0/23.2
Allison, Model 250-C28C							
MBB BO 105LS	1,000	790	790 493	.602	20,000	296	41.8/21.9/25.1
Allison, Model 250-C30S							
Sikorsky 576	1,300	1,300	1,300 700	.592	15,000	249	40.9/21.9/25.1
General Electric, Model CT7-2A							
Bell 214ST	3,250	2,350	1,950 1,725	.474	10,000	432	25 Dia./46L
General Electric, Model CT7-6							
HE Industries EH 101	2,000	5,000	N/A	.449	N/A	460	25 Dia./46L
General Electric, Model CT58-140							
Agusta AS-61N1	N/A	N/A	N/A	N/A	N/A	340	16 Dia./59L
Pratt & Whitney, Model PT6B-36							
Sikorsky S-76B	1,920	1,500	15,000 960	.594	15,00	744	N/A
Pratt & Whitney, Model PT6T-T							
Bell 212	1,800	1,290	1,135 970	.595	13,200	645	67/45/33
Pratt & Whitney, Model PT6T-T3B							
Bell 412	1,800	1,400	1,135 970	.600	16,300	694.5	66/44/33

Multi-Engine Turbine (continued)

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Pratt & Whitney, Model PW209T								
Bell 400A	937	N/A	N/A	.580	N/A	468	35.7/42/30.0	
Rolls-Royce, Model Gem 60-3								
Westland 30	2,264	2,100	2,100 1,239	.502	12,500	407	43.3/22.6/23.5	Rated at ISA+15 degrees Celsius.
Rolls-Royce, Model RTM 322, EH 101, EH1								
Turbomeca	6,300	N/A	N/A	.44	N/A	529	46.1/24.0/25.5	3 Engine installation.
Textron Lycoming, Model LTS 101-650B-1								
MBB BK 117	1,100	848	848 493	.57	10,000	266	25.36/18.52/31.05	Engine offers design simplicity, easy maintenance and cost effective performance, has a 2 1/2 minute OEI rating of 592 shp.
Textron Lycoming, Model LTS 101-650C-3								
Bell 222	1,368	925	875 335	.57	15,800	240	19.45/22.60/31.21	Engine offers design simplicity, easy maintenance and cost effective performance, has a 2 1/2 minute OEI rating of 675 shp.
Textron Lycoming, Model LTS 101-750B-2								
Aerospatiale/Coast Guard SRR	1,380	N/A	N/A	.57	N/A	271	25.36/18.52/31.05	Engine offers design simplicity, easy maintenance and cost effective performance, has a 2 1/2 minute OEI rating of 742 shp.
Textron Lycoming, Model LTS 101-750C-1								
Bell 222 Utility Twin	1,368	925 735	875	.58	15,800	244	20.15/22.60/31.31	Engine offers design simplicity, easy maintenance and cost effective performance, has a 2 1/2 minute OEI rating of 735 shp.
Textron Lycoming, Model AL5512								
Boeing Vertol ER, LR, Multi-purpose	8,150	6,750	6,480 4,600	.574	8,500	750	24.25 Dia./47.1 L	
Boeing Vertol UT	8,150	6,750	6,480 4,600	.574	13,400	750	24.25 Dia./47.1 L	
Turbomeca, Model Arriel IC								
Aerospatiale Dauphin 2	1,320	1,206	1,153 700	.581	15,000	253	44.2/18.6/24.5	
Turbomeca, Model Makila IA								
Aerospatiale Super Puma	3,510	2,760	2,440 2,080	.476	13,780	534.6	73/17.8/26.5	

Directory of Manufacturers' Contacts

For additional information on avionics listed in this section, call the manufacturers' contacts shown below:

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A&A
AVIATION & AEROSPACE DIVISION

MEMBER PRODUCT AND SERVICE DIRECTORY

The pages that follow include HAI Associate and Regular Operator member companies that provide certified products, supplies or services to the civil helicopter industry.

This index has been organized alphabetically by the designated products and/or services offered by each HAI member firm. Each product or service sub-heading is then listed in alphabetical sequence according to the member's company name.

Operator members are noted with a • following their name. The ■ indicates the telex number and the ♦ indicates the fax number. For additional information on any of the products or services offered by these HAI member firms, please contact the company directly.

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Aeroquip Corporation
TEDECO Division
Glenolden, PA
☎ 215-583-9400 ■ 831429 ♦ 215-583-3985

Aerospace Thermoforming, Inc.
Anaheim, CA
☎ 714-632-7767

Aircraft Marketing, Ltd.
Rockville, MD
☎ 301-424-9047 ■ 150117

Aircraft Parts Corporation
Farmingdale, NY
☎ 516-249-3053 ■ 961341

All-System Aerospace International, Inc.
Hauppauge, NY
☎ 516-582-9200 ■ 221-654/497

Aviation Instrument Services
Miami, FL
☎ 305-251-7200 ■ 52-5110 ♦ 305-251-2300

Bendix Aerospace
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☎ 219-234-4135 ■ 710-955-0903 ♦ 219-232-0441

The BKM Company
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☎ 214-350-8955 ■ 734009 ♦ 214-368-2506

Brackett Aircraft Co., Inc.
Kingman, AZ
☎ 602-757-4005

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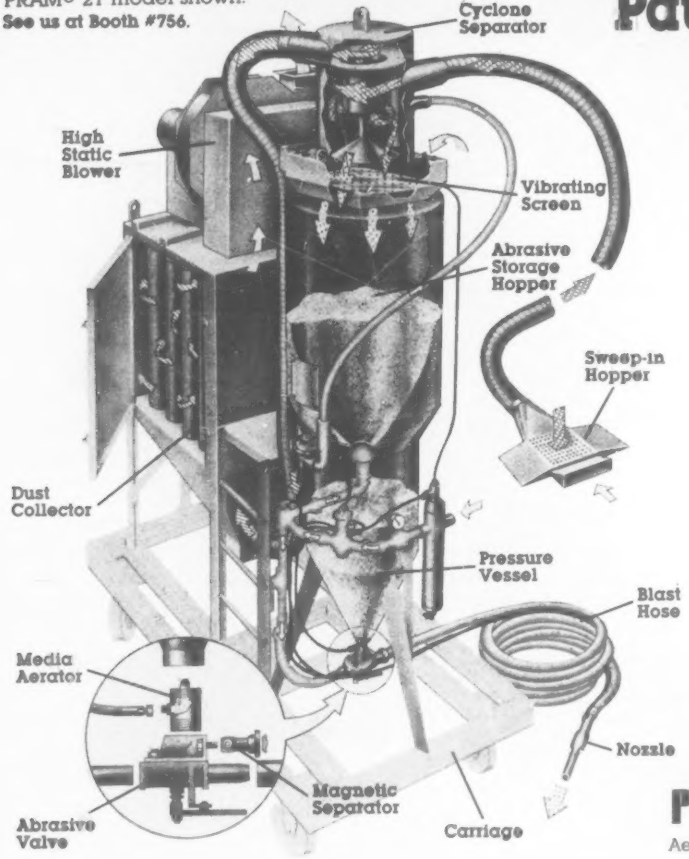

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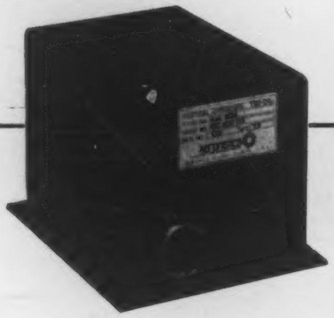

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Burbank, CA
☎ 213-845-7887 ■ 194121 ♦ 818-845-3018

Pueblo Airmotive, Inc.
Tucson, AZ
☎ 602-742-2018 ■ 294308 ♦ 602-623-6078

TRANSMISSION & DRIVE COMPONENTS MANUFACTURERS/DISTRIBUTORS

ACR Industries, Inc.
Roseville, MI
☎ 313-773-0450 ■ 230263

Air Services International, Inc. •
Scottsdale, AZ
☎ 602-948-2150 ■ 668-445

Aircraft Gear Corporation
Chicago, IL
☎ 312-594-2100 ■ 270455

Aircraft Gear Corporation
Arizona Division
Chandler, AZ
☎ 602-821-2434

California Helicopter International
Ventura, CA
☎ 805-644-5800 ■ 6831165 ♦ 805-644-5132

KAMATICS Corporation
Bloomfield, CT
☎ 203/243-9704 ■ 643201

Meridian Heliflight, Inc.
Prince George, BC, Canada
☎ 604-561-1010 ■ 0477188

Pacific Air Logistics, Inc.
Burbank, CA
☎ 213-845-7887 ■ 194121 ♦ 818-845-3018

The Purdy Corporation
Manchester, CT
☎ 203-649-0000 ■ 710-427-4190

Western Gear Corporation
Subs. of Lucas Industries Inc.
Arlington, VA
☎ 703-892-1673 ■ 710-955-1184

TRANSMISSION & DRIVE COMPONENTS REPAIR & OVERHAUL

Aero Asahi Corporation •
(Asahi Koyo)
Tokyo, Japan
☎ 03-988-1011 ■ 2723355

Aero-Copters Inc. •
Seattle, WA
☎ 206-763-2177

Aerogulf Services Co. (Pvt) Ltd. •
Dubai, United Arab Emirates
☎ 971-4245157 ■ 46674 ♦ 971-4246035

Air Logistics •
Lafayette, LA
☎ 318-365-6771 ■ 784701 ♦ 318-364-8222

Aircraft Gear Corporation
Chicago, IL
☎ 312-594-2100 ■ 270455

Aircraft Gear Corporation
Arizona Division
Chandler, AZ
☎ 602-821-2434

Alaska Helicopters, Inc. •
Anchorage, AK
☎ 907-243-3404 ■ 25372 ♦ 907-248-0342

Aris Helicopters, Ltd. •
San Jose, CA
☎ 408-998-3266 ■ 62921815 ♦ 408-263-1821

Associated Helicopter Services, Inc. •
Long Beach, CA
☎ 213-420-2128 ■ 690006

Bristol Aerospace Limited
Winnipeg, MB, Canada
☎ 204-775-8331 ■ 07-57774 ♦ 204-885-3195

Bristow Helicopter Group Ltd. •
Surrey, England
☎ 01-668-6352 ■ 21913

C.R.I. Helicopters •
Apple Valley, CA
☎ 619-247-5845

California Helicopter International
Ventura, CA
☎ 805-644-5800 ■ 6831165 ♦ 805-644-5132

Brian Chuchua's Jeep, Inc. •
Placentia, CA
☎ 714-879-5337 ■ 655-460 ♦ 714-528-7001

Columbia Helicopters, Inc. •
Portland, OR
☎ 503-678-1222 ■ 360307 ♦ 503-678-5841

Court Helicopters (Pty) Limited •
Cape Town, South Africa
☎ 021-934-0560 ■ 5-20696

Edwards & Associates, Inc. •
Bristol, TN
☎ 615-538-5111 ■ 553446

ERA Helicopters, Inc. •
Anchorage, AK
☎ 907-248-4422 ■ 09025324 ♦ 907-248-4422

ERA Helicopters, Inc. •
Gulf Coast Division
Lake Charles, LA
☎ 318-478-6131 ■ 502-459 ♦ 318-474-3918

Executive Air Taxi Corp. •
Bismarck, ND
☎ 701-258-5024

Hartford Helicopters, Inc. •
Hartford, CT
☎ 203-522-1113 ♦ 203-247-2376

Heli-Dyne Systems Inc.
Fort Worth, TX
☎ 817-282-9804 ■ 758619 ♦ 817-282-8329

Helicopter Support Australia
Kununurra, Australia
☎ 091-682-129 ■ 99873

Helicopteros de Guatemala •
Guatemala City, Guatemala
☎ 318282 ■ 5676

Helicopteros Nacionales de •
Colombia - "HELICOL" S.A.
Bogota, Colombia
☎ 263-7504 ■ 41225

Helicopters Unlimited, Inc. •
Oakland, CA
☎ 415-632-9422 ■ 172311

Helijet Aero Taxi Ltda. •
Rio de Janeiro, Brazil
☎ 021-224-7282 ■ 02131050 ♦ 021-231-0785

Helikopter Service A/S •
Lysaker, Norway
☎ 02-590560 ■ 76431

Helipower Service
Santa Paula, CA
☎ 805-933-1371 ■ 182248

HELISWISS, Swiss Helicopter Ltd. •
Belp, Switzerland
☎ 31-81-33-11 ■ 911-655 ♦ 31-81-49-86

Houston Helicopters, Inc. •
Pearland, TX
☎ 713-485-1777 ■ 790461

Jayrow Helicopters Pty. Ltd. •
Victoria, Australia
☎ 587-1833 ■ AA33019

Lapplandsflyg/Lapair AB •
Umea, Sweden
☎ 90-129050 ■ 54029

Mata Helicopters Jerusalem
Israel Aircraft Industries Ltd.
Jerusalem, Israel
☎ 02-841211 ■ 26213 ♦ 02-841210

Meridian Heliflight, Inc.
Prince George, BC, Canada
☎ 604-561-1010 ■ 0477188

Motorflug GmbH •
Baden-Baden, West Germany
☎ 7221-61003-5 ■ 781129

New Hampshire Helicopters, Inc. •
Hampton, NH
☎ 603-926-4949

Omniflight, Inc. •
Charleston, SC
☎ 803-762-1620 ■ 62970299

Orlando Helicopter Airways, Inc. •
Orlando, FL
☎ 305-841-3480 ■ 564400 ♦ 305-740-6451

Ostermans Aero AB •
Jarfalla, Sweden
☎ 08-760-27-20 ■ 17294 & 13485 ♦ 08-760-8112

Petroleum Helicopters, Inc. •
Lafayette, LA
☎ 318-235-2452 ■ 586670 ♦ 318-235-3424

The Purdy Corporation
Manchester, CT
☎ 203-649-0000 ■ 710-427-4190

Ramapo Helicopters, Inc.
Spring Valley, NY
☎ 914-352-8600 ■ 131528 ♦ 914-425-4101

Sabah Air Pte Ltd. •
Kota Kinabalu, Malaysia
☎ 088-51326 ■ 80073

Schweizer Aircraft Corp.
Elmira, NY
☎ 607-739-3821 ■ 932459 ♦ 607-796-2488

Servicio Tecnico Aeronautico •
(Heliservicio Campeche S.A.)
Merida, Yucatan, Mexico
☎ 24-72-90 ■ 753863

Spar Aerospace Limited
Toronto, ON, Canada
☎ 416-781-1571 ■ 065-24240 ♦ 416-781-1571

St. Louis Helicopter •
Airways Inc.
St. Louis, MO
☎ 314-532-1177

Tiller Helicopter Service Inc. •
Alice, TX
☎ 512-664-6453

Vancouver Island Helicopters Ltd •
Sidney, BC, Canada
☎ 604-656-3987 ♦ 604-655-1180

VOTEC •
Rio de Janeiro, Brazil
☎ 21-325-9044 ■ 21-23999 ♦ 21-325-6516

Western Aircraft Maintenance Inc.
Morrison-Knudsen Co., Inc.
Boise, ID
☎ 208-386-6565 ■ 368439 ♦ 208-386-7186

Western Gear Corporation
Subs. of Lucas Industries Inc.
Arlington, VA
☎ 703-892-1673 ■ 710-955-1184

Western Helicopters, Inc. •
Rialto, CA
☎ 714-829-1051 ■ 676421 ♦ 714-829-4904

WIKING Helicopter Service GmbH •
Hamburg, West Germany
☎ 44-19-13-50 ■ 21700840 ♦ 44-19-13-51

UNIFORMS & HELMETS

David Clark Company Inc.
Worcester, MA
☎ 617-756-6216 ■ 920482 ♦ 617-753-5827

FitzWright Survival Systems Inc.
Richmond, BC, Canada
☎ 604-270-2313 ■ 04-357705 ♦ 604-270-6519

Flight Suits, Ltd.
El Cajon, CA
☎ 619-440-6976 ■ 295478

"OTHER" SERVICES

ACR Industries, Inc.
Roseville, MI
☎ 313-773-0450 ■ 230263
Service: Manufacturer of gears and gearboxes.

Aerospace Thermoforming, Inc.
Anaheim, CA
☎ 714-632-7767
Service: Helicopter plastic interior components.

Air Methods Corporation •
Englewood, CO
☎ 303-790-0587 ♦ 303-790-0499
Service: EMS equipment & installations.

Air Pegasus
Livingston, NJ
☎ 201-736-8488 ♦ 201-535-2889
Service: Fixed base operator.

Air/Space America
San Diego, CA
☎ 619-294-8808
Service: International Trade Expositions.

Aircraft Technical Publishers
Brisbane, CA
☎ 415-468-1705 ■ 171048
Service: Maintenance libraries.

Anavibe Services, Inc.
Hawkesbury, ON, Canada
☎ 613-632-2502
Service: Helicopter vibration analysis including monitoring and diagnostics.

ARCO
Dallas, TX
☎ 214-358-6600
Service: Supplier of petroleum related products.

Arabian American Oil Company
Aviation Department
Dhahran, Saudi Arabia
☎ 876-2339 ■ 601220 ♦ 876-1590
Service: Oil exploration and production.

Arrow Magnolia International
Dallas, TX
☎ 214-247-7111
Service: Total aircraft interior & exterior cleaning needs (cleaners, coatings, deodorants and disinfectants).

Avfuel Corporation
Ann Arbor, MI
☎ 313-663-6466
Service: Supplier of aviation fuels.

Aviation and Fire Management Center - Government of Ontario
Sault Ste. Marie, ON, Canada
☎ 705-942-1800 ■ 067-77166 ♦ 705-942-0182
Service: Aircraft management services to Government of Ontario.

Avio Sales & Service Corp.
Holmdel, NJ
☎ 201-671-0873 ■ 756483
Service: Manufactuerers' sales rep for aircraft components.

Aviotex/TABS
Costa Mesa, CA
☎ 714-557-9210 ♦ 714-557-4119
Service: Graphic weather briefing and flight planning services.

Borgess Inflight Medical Service
Kalamazoo, MI
☎ 616-383-7145
Service: Fixed based EMS operator.

Boston Heliport, Inc.
Boston, MA
☎ 617-482-4501 ■ 94-0390
Service: Heliport operator.

Canadian Aviation Safety Board
Ottawa, ON, Canada
☎ 819-994-8024 ■ 053-4487 ♦ 819-997-2239
Service: Accident/incident investigations.

Canadian Marconi Company Avionics Division
Montreal, PQ, Canada
☎ 514-341-7630 ■ 05827822
Service: Manufacture & marketing of ground-based navaids.

Chase, Rotchford, Drukker & Bogust
Los Angeles, CA
☎ 213-626-8711
Service: Aviation defense law firm.

CMI Aircraft Corporation
Bloomfield Hills, MI
☎ 313-456-0000 ■ 499-4188 ♦ 313-857-3936
Service: Aircraft leasing and financing.

Coopers Service Corp.
Dallas, TX
☎ 214-352-9751 ■ 73-0226
Service: Plating services.

Dade County Aviation Department
Miami, FL
☎ 305-871-7077 ■ 810-848-4781
Service: Airport/heliport Operator.

Duncan Aviation, Inc. •
Lincoln, NE
☎ 402-475-2611 ■ 484365 ♦ 402-475-5541
Service: Avionics services as well as repair & overhaul.

Eberhard Klemens
Naperville, IL
☎ 312-416-1999
Service: Lessor of helicopters.

Embry-Riddle Aeronautical University
Daytona Beach, FL
☎ 904-239-6397
Service: Accredited aviation independent study course.

FAPA - Future Aviation Professionals of America
Atlanta, GA
☎ 404-294-0026 ■ 494-4313 ♦ 404-297-0995
Service: Aviation resumes and maintenace job referral system.

FitzWright Survival Systems Inc.
Richmond, BC, Canada
☎ 604-270-2313 ■ 04-357705 ♦ 604-270-6519
Service: Rescue equipment.

Flight Management Group, Inc. •
Dallas, TX
☎ 214-902-8000 ■ 73-4142 ♦ 214-902-0101
Service: Specializes in helicopter management.

Flight Safety Foundation
Arlington, VA
☎ 703-820-2777 ■ 901176 ♦ 703-820-9399
Service: FSF provides a variety of safety information services.

Fluorocarbon Technologies Inc.
Annapolis, MD
☎ 301-268-6451 ■ 386950 FTCA
Service: Manufacture fluorocarbron penetrating lubricants.

Genisco Technology Corporation Transducer Products Division
Simi, CA
☎ 805-581-3985 ■ 910-494-4782 ♦ 805-583-1526
Service: Manufacturer of tranducers.

Hazeltine Corporation
Commack, NY
☎ 516-266-5656 ■ 6852393 ♦ 516-462-6794
Service: Landing systems.

Heavylift Marketing, Inc.
Miami, FL
☎ 305-591-2272 ■ 522384
Service: Transport systems for helicopters.

Heli-Dyne Systems Inc.
Fort Worth, TX
☎ 817-282-9804 ■ 758619 ♦ 817-282-8329
Service: Avionics & modifications; including custom interiors.

Helicopter Technology Co., Inc.
Decatur, GA
☎ 404-981-7729
Service: Air conditioning/power line construction.

Hitchcock Industries, Inc.
Sherman, TX
☎ 214-786-6000 ■ 730294
Service: Supplier of non-ferrous castings.

Hospital AirTransport Inc. •
Portland, OR
☎ 503-648-4291 ♦ 503-640-3071
Service: EMS interior modifications.

Hynes Aviation Industries, Inc.
Frederick, OK
☎ 405-335-7511 ■ 910-240-3971
Service: Research & development for rotorcraft.

Identechs
Irvine, CA
☎ 714-250-1290 ♦ 714-755-6275
Service: Anti-corrosive treatments for turbines and airframes.

Indal Technologies Inc.
Mississauga, ON, Canada
☎ 416-275-5300 ■ 06-961482 ♦ 416-273-7004
Service: A leading supplier of helicopter support systems.

Intermountain Air College
Salt Lake City, UT
☎ 801-364-4644
Service: FAA 141 Flight School.

Keeton & Rich, Inc.
Dallas, TX
☎ 214-634-2359 ♦ 214-634-2375
Service: Specialized aviation industry advertising agency.

Kell-Strom Tool Co., Inc.
Wethersfield, CT
☎ 203-529-6851 ■ 994426
Service: Manufacturer of ultrasonic cleaning equipment.

Keystone Helicopter Services •
West Chester, PA
☎ 215-644-4430 ■ 510-668-5061 ♦ 215-644-7681
Service: Completions: interior & exterior.

M & N Plastics, Inc.
Springtown, TX
☎ 817-523-7245 ■ 758516
Service: Manufacturer of helicopter replacement windows.

Machida America
Orangeburg, NY
☎ 914-365-0600 ■ 646955
Service: Inspection equipment for repair and overhaul.

Marathon Oil Company
Findlay, OH
☎ 419-422-2121 ■ 242446
Service: Lessor of helicopters.

Marsteller International, Inc.
Irving, TX
☎ 214-869-3144 ■ 650-263-0050 ♦ 214-869-2011
Service: International marketing/consulting specialists.

Nordam/Lori
Tulsa, OK
☎ 918-560-5510 ■ 492377 ♦ 918-583-2604
Service: Rotable inventory of honeycomb panels & oil coolers.

Norton Performance Plastics
Composites Operations
Ravenna, OH
☎ 216-296-9948 ■ 4338012 ♦ 216-296-7955
Service: Performs randome manufacture and repair.

The Official Helicopter Blue Book
Arlington Heights, IL
☎ 312-259-7711 ■ 720 493 ♦ 312-259-2202
Service: Helicopter appraisals.

Orion Electronics International
Hayward, CA
☎ 415-887-7711
Service: Manufacturers of weather computer systems.

Orlando Helicopter Airways, Inc. •
Orlando, FL
☎ 305-841-3480 ■ 564400 ♦ 305-740-6451
Service: Rotor blade overhaul.

Pauli & Griffin Co.
Vacaville, CA
☎ 707-447-7000 ■ 176328 ♦ 707-447-7036
Service: Manufacture a plastic reclaimable abrasive machine.

Pedley Nets
Glen Ellen, CA
☎ 707-996-6629
Service: Manufacturer/distributor of cargo handling equipment.

Pioneer Safaris Ltd.
Hokitika, West Coast, New Zealand
■ 1064
Service: Tour Operator specializing in custom hunting tours, venison recovery, etc.

Polaris Aircraft Leasing
Corporation
San Francisco, CA
☎ 415-362-0333 ■ 67530 ♦ 415-362-4278
Service: Specialize in helicopter leasing.

Pratt & Lambert
Wichita, KS
☎ 316-733-1361
Service: Manufactures paints, chemical coatings & adhesives.

Precise Flight, Inc.
Bend, OR
☎ 503-382-8684
Service: Manufacturers of anti-collison contact light systems.

Pueblo Airmotive, Inc.
Tucson, AZ
☎ 602-742-2018 ■ 294308 ♦ 602-623-6078
Service: Airframe spare parts and support.

Qualimetrics, Inc.
Sacramento, CA
☎ 916-923-0055 ■ 377 310 ♦ 916-923-5737
Service: Meteorological systems.

Richardson Management Associates
Montreal, PQ, Canada
☎ 514-935-2593
Service: Specialists in human relations training and development.

Rollins Burdick Hunter
National Aviation Division
Chicago, IL
☎ 312-454-1400
Service: Serve as risk management consultants.

Rotor-Flite, Inc.
Houston, TX
☎ 713-641-0159
Service: Provide EMS conversions.

Semco Instruments, Inc.
North Hollywood, CA
☎ 818-982-1400 ■ 910-499-2155 ♦ 818-982-8229
Service: Turbine engine trend monitoring/recording systems.

Sensor Systems, Inc.
Chatsworth, CA
☎ 818-341-5633 ■ 69-1583 ♦ 818-341-9059
Service: Manufacturer of aircraft antennas.

Sky Sign
Miami, FL
☎ 305-759-7446 ■ 807533
Service: Electronic aerial & ground message systems.

SOGEREP - Bell Helicopter
Arabia
Riyadh, Saudi Arabia
☎ 966-1-465-5378 ■ 403254 ♦ 966-1-464-4190
Service: Helicopter operations and maintenance company.

Southern Air Transport, Inc.
Miami, FL
☎ 305-871-5171 ■ 51-8856 ♦ 305-871-2921
Service: Aviation transport services.

Tennant Co.
Minneapolis, MN
☎ 612-540-1200 ■ 290451
Service: Manufacturer of power sweepers and scrubbers.

Texaco USA
Aviation Transport Division
Houma, LA
☎ 504-876-5470
Service: Aviation Transport Division for Texaco USA.

Texstar, Inc.
Grand Prairie, TX
☎ 214-647-1366 ■ 073-2397 ♦ 214-641-2800
Service: Manufacturer of coatings and composites.

Tiodize Co., Inc.
Huntington Beach, CA
☎ 714-898-4377 ♦ 714-891-7467
Service: Lubricants & corrosion coatings.

TOTAL CFP
Paris, France
☎ 1-42-91-47-50 ■ 615-700
Service: Oil company providing exploration/production services.

University of Southern
California
Los Angeles, CA
☎ 213-743-6523 ■ 181101
Service: Aviation safety courses and conferences.

Vancouver Heliport
Services Inc.
Vancouver, BC, Canada
☎ 604-688-4646
Service: Heliport operator; fueling and servicing.

Weld-It Company
Los Angeles, CA
☎ 213-263-7524
Service: Refueler tank/ground support.

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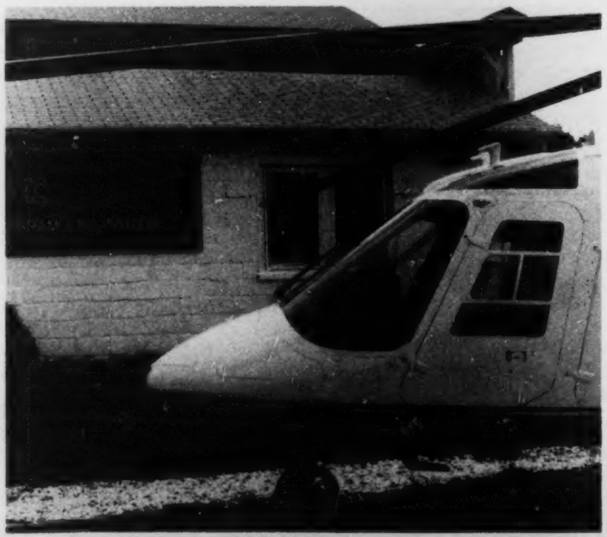

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Alphabetical Listing of Member Operators Worldwide

HAI member listings include detailed information on personnel, service operations and equipment. The ■ indicates the telex number and the ♦ indicates the company's fax machine number. Immediately following the alphabetical directory is the member operators matrix of services. The vertical axis is organized geographically by state or country, then by city within the state. The horizontal axis alphabetically lists services provided by each HAI member operator.

Abu Dhabi Aviation
P.O. Box 2723
Abu Dhabi, United Arab Emirates
☎ 722733 ■ 23409
General Manager: H.E. Ali Saeed Al-Shamsi
Chief Pilot: Jeremy D. Railton
Deputy Chief Pilot: George G. Tucker, III
Deputy Engineering Manager: David Beadows
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing
Helicopters: 5-206B, 26-B212

Action Helicopter Service
13000 Las Vegas Blvd., So.
Las Vegas, NV 89120
☎ 702-361-0013
President: Marilyn Larson
Director of Operations: Mel Larson
Director of Maintenance: Edward J. Zachman, Sr.
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, Exploration, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206B, 1-206B3, 1-206L

Aero Asahi Corporation
(Asahi Koyo)
Sunshine 60, 32 Fl, 1-1, 3 Chome
Higashi-Ikebukurro, Toshimaku
Tokyo 170, Japan
☎ 03-988-1011 ■ 2723355
President: Hidenori Takahashi
Executive Managing Director: Wataru Nishikawa
Operations Manager: Minoru Asai
Chief Pilot: Mitsushi Matsumoto
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Private owners, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 2-330J, 8-B212, 6-B412, 36-206B, 6-204B, 4-214B, 10-B47G, 11-350B, 6-355F, 2-332L, 1-S76A, 1-214ST, 1-MI8, 2-BK117, 1-B105, 2-206L

Aero-Copters Inc.
8013 Perimeter Road South
Seattle, WA 98108
☎ 206-763-2177
President: G.C. Garbell
Vice President: B.J. Garbell
Chief Pilot: L.S. Stickney
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 3-206B

Aero-Executive Helicopters
4251 S. Higuera Street
Suite 101
San Luis Obispo, CA 93401
☎ 805-544-3990
President: Warren F. Dolezal
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206L3

Aero Support, Inc.
P.O. Box 211
Bedford, NH 03102
☎ 603-644-3003
President: Gary W. York
Director of Operations/Chief Pilot: Jay Chandler
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 1-206B

Aero West Management Service, Inc.
P.O. Box 9368
Albuquerque, NM 87119
☎ 505-243-9031
President: Donald C. Ambabo
Chief Pilot: Gene Wilson
Director of Maintenance: John McKeever
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Photography, Skiing
Helicopters: 3-206B3, 1-500D

Aeroexpreso Bogota Ltda.
Apartado Aereo 6781
Bogota, Colombia
☎ 2118100 ■ 044581 ♦ 2128952
President: James G. Leaver
General Manager: Roberto Nino
Technical Director: Gustavo Nivia
Operations Director: Carlos Ayala
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Pilot training school, Traffic surveillance
Helicopters: 4-500D, 1-500E, 2-B105

Aerogulf Services Co. (Pvt) Ltd.
P.O. Box 10566
Dubai, United Arab Emirates
☎ 971-4245157 ■ 46674 ♦ 971-4246035
General Manager: U.J. Sobiecki
Contract Coordinator: Capt. J.H. Kirk
Chief Pilot: Capt. R. Davidson
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Offshore, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-B212, 4-B105, 4-206B

Aerospatiale Helicopters Australia Limited
P.O. Box 51
Bankstown Airport
Bankstown, N.S.W.
2200 - Australia
☎ 02-7072333 ■ 74813 ♦ 02-7071386
Commercial Manager: David Griffiths
Marketing Manager: B. Robertson
Product Support Manager: J.C. Reboulet
Technical Services Specialist: D. Ladbrook
Operations: Mechanic training school, Pilot training school, Repair station (FAA certified)
Helicopters: 1-350B

AETNA Life & Casualty
Hangar 85-176
Bradley International Airport
Windsor Locks, CT 06096
☎ 203-627-3060 ■ 99241 ♦ 203-627-3070
Manager, Corporate Aviation:
James N. Montstream
Chief Pilot: William W. Faulkner
Operations: Corporate (US pt 91, not for hire)
Helicopters: **2**-S76A

Africair, Inc.
P.O. Box 165139
Miami, FL 33116-5139
☎ 305-255-6973 ■ 803519
President: Marvin L. Evans
Vice President/Operations: Franz Astner
Vice President/Marketing: Bruce Fullerton
Assistant Vice President: Bill Desai
Operations: Exploration, External cargo, Government contracting, Offshore
Helicopters: **5**-206B, **5**-206L

Ag Air Inc.
P.O. Box 606
Johnstown, CO 80534
☎ 303-776-8944
President: Gary M. Osborne
Operations Manager: Ron L. Osborne
Operations: Agriculture, External cargo
Helicopters: **1**-H12E, **1**-500C

Ag Rotors Inc.
P.O. Box 578
Gettysburg, PA 17325
☎ 717-334-6777
President: Timothy H. Voss
V.P. Sales/Marketing: Edward Cunningham
V.P. Maintenance: Larry Helwig
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: **4**-206B, **2**-SL12, **8**-47B, **1**-B212, **1**-204B, **1**-500D

Air Hanson Ltd.
Brooklands
Weybridge
Surrey, KT13 OSH, England
☎ 0932-57611 ■ 928545 ♦ 0932-56043
Managing Director: Capt. Patrick McHaffey
Marketing/Sales: Michael Wheatley
Financial: Bob Daws
Chief Engineer: Patrick J. Newell
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, External cargo, Government contracting, Law enforcement (for hire), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: **2**-S76A, **2**-206B, **2**-206L, **2**-B222

Air Logistics
P.O. Box 5-C
Lafayette, LA 70505
☎ 318-365-6771 ■ 784701 ♦ 318-364-8222
President/Chief Operating Officer:
James Clement
Director of Maintenance: Gerald Freeman
Director of Operations: Allan Williams
International Operations: Hans J. Albert
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: **15**-S76A, **30**-206B, **31**-206L1, **2**-B412, **7**-B212, **5**-355F

Air Methods Corporation
Denver/Centennial Airport
P.O. Box 4114
Englewood, CO 80112
☎ 303-790-0587 ♦ 303-790-0499
President: Roy L. Morgan
Director of Operations: Maurice Martin
Director of Maintenance: Steve Weinert
Chief Pilot: Steve Scully
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport
Helicopters: **2**-206L1, **5**-206L3, **5**-B222, **1**-B212

Air Services International, Inc.
7300 E. Evans Road
Scottsdale, AZ 85260-3178
☎ 602-948-2150 ■ 668-445
President: Robert M. Wachs
Vice President: Scott S. Smith
Chief Pilot: Mike McDonald
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **6**-206L3, **2**-206B3, **1**-315B

Aircoastal Helicopters, Inc.
74 Lindy Lane, Suite B
West Palm Beach, FL 33406
☎ 305-471-1218
President/Chief Pilot: Boyce D. Crowe, Jr.
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Photography
Helicopters: **1**-206L, **2**-206B

Airfast Indonesia P.T.
Kuningan Plaza - Suite 304
Jl. H.R. Rasuna Said Kav C 11-14
Jakarta, 12940, Indonesia
☎ 517696 ■ 44497
President: Frank D. Reuneker
Director: Erlangga Suryadarma
General Manager: Terence E. Steen
Chief Pilot: Charles A. Weitz
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: **8**-S58T, **4**-204B, **2**-206B, **1**-316B

Alaska Helicopters, Inc.
P.O. Box 190283
Anchorage, AK 99519-0283
☎ 907-243-3404 ■ 25372 ♦ 907-248-0342
Chairman of the Board: Wesley G. Lematta
President: Rex I. Bishopp
Operations Manager: Steven R. Smith
Director of Maintenance: Thomas E. Craig
Chief Pilot: Bill Woollen
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: **14**-206B, **5**-206L1, **2**-205A, **1**-B107

Alemdar Helikopter Servis Ltd.
Corporate Plaza II
51 Cragwood Road
S. Plainfield, NJ 07080
☎ 201-756-1555
President: Murat Alemdar
Chief Pilot: Tanju Tezgel
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: **1**-206B

Alexair
25320 Bellanca Way
Torrance, CA 90505
☎ 213-326-3338 ■ 653582
President: Eli Alexander
Operations Manager: Steve A. Alexander
Operations: Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Law enforcement (for hire), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: **2**-500C, **1**-500D, **2**-300B

Allied Automotive
30000 Northline Road
Detroit, MI 48242
☎ 313-941-2300 ■ 23-0699
Vice President/Human Resources:
Dennis F. Hayward
Director, Flight Operations:
Donald G. Harner
Chief Helicopter Pilot: James W. Moore
Helicopter Captain: Brian H. Elliott
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-206B, **1**-S76A

Allied Signal Corporation
Allied Aviation Department
Morristown Airport
Morristown, NJ 07960
☎ 201-455-6012 ♦ 201-455-2697
Director, Aviation: Anthony (Skip) Penizotto
Chief Pilot: Jack G. Childs
Chief of Maintenance: Jim S. Johnson
Helicopter Captain:
George Edward Newton, Jr.
Helicopter Captain: William Rio

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MIAMI, FLORIDA 33186
305/253-6111

IN WASHINGTON, DC. METRO AREA:
BOB GUICE
7010 OLD CHAPEL ROAD
BOWIE, MARYLAND 20715
301/262-1036

Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76B

American Continental Corp.
3917 East Airlane
Phoenix, AZ 85034
☎ 602-267-9869 ■ 4952221
Senior Helicopter Captain: Stephen R. Smith
Helicopter Captain: Dave Polak
Helicopter Captain: Mark Praderio
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76B

American Express Company
Hangar "E"
Westchester County Airport
White Plains, NY 10604
☎ 914-948-5311 ♦ 814-287-0376
Chief Pilot: Kenneth Wallace
Chief of Maintenance: Thomas Fleming
Senior Helicopter Captain:
Ronald C. Lombardo
Helicopter Captain: Ronald E. Becker
Helicopter Captain: Chauncey Webb
Helicopter Co-Pilot: Tim McDonough
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76B

American Protective Services
785 Doe Place, INEL CF-608
Idaho Falls, ID 83402
☎ 208-526-8033
President, APS: Tom Keating
Air Operations Manager:
Michael Dee Atwood
Project Manager, APS: John Maloney
Director, Safeguard & Security: Bob Bostian
Asst. Manager-Admin./DOE: Stu Milam
Operations: Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 2-222UT

Amoco Corporation
5901 S. Central Avenue
Chicago, IL 60638
☎ 312-856-6667 ■ 9102210111
Chief Pilot: A.B. Lane
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-355E, 1-206B

Analar Corp.
Church & Dwight Co., Inc.
P.O.Box 3302
Princeton Airport
Princeton, NJ 08540
☎ 609-683-4790
President: Wendell Harkelroad
Operations Manager: Willard C. Kimm, Jr.
Helicopter Pilot: William Sirotnak
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 2-206B3

Anheuser-Busch Companies, Inc.
Flight Operations
P.O. Box 3139
Chesterfield, MO 63017-9439
☎ 314-532-2448 ■ 910-765-0915 ♦ 314-532-2574
Operations Manager: Carl E. Henke
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B222, 1-B412, 1-206B3

Antilles Helicopters
P.O. Box 2779
St. Thomas, VI 00801
☎ 809-776-7880 ■ 3474099
President: Steve Crimm
Vice President: Valli Bennett
Operations: Air carrier, Air taxi/charter (US part 135), Executive transport, Photography, Sightseeing
Helicopters: 1-206B3

Arctic Air Service, Inc.
1801-A North "H" Street
Lompoc, CA 93436-2827
☎ 805-735-3717
President: Walter N. Attebery
Director of Operations: Richard Wallace
Director of Maintenance: Robert Maunder
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable)
Helicopters: 2-S76A, 1-206B

Aris Helicopters, Ltd.
1138 Coleman Avenue
San Jose, CA 95110
☎ 408-998-3266 ■ 62921815 ♦ 408-263-1821
President: Stephen R. Sullivan
Vice President: Wayne E. Burk
Secretary/Treasurer: Nancy R. Sullivan
Director of Operations: John F. Koshinsky
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 4-300C, 1-500D, 2-206B, 4-350D, 4-S58T, 1-206L1, 1-315B

Arizona Department of Public Safety - Aviation Division
P.O. Box 6638
Phoenix, AZ 85005
☎ 602-262-8411
Commander, Aviation Division:
Capt. Frank S. Root
Commander, Flight Operations Section:
Lt. S.F. Roethle
Operations: EMS/air ambulance, Law enforcement (not for hire)
Helicopters: 2-206L3, 1-206L1, 1-222UT

Associated Helicopter Services, Inc.
3501 Lakewood Boulevard
Long Beach, CA 90808
☎ 213-420-2128 ■ 690006
President: Les G. Smith
V.P./Dir. of Operations: Clifford T. Fleming

Chief Pilot: Chris Saunders
Director of Maintenance: Ray Hanna
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 3-206L3, 2-204B, 1-205A, 1-B222, 1-350B, 3-500D, 1-206B, 1-341G

AT&T Resource Management Aviation Division
Morristown Municipal Airport
Morristown, NJ 07960-4648
☎ 201-326-1400 ■ 7109867459
Aviation Division Manager: Kenneth R. Smith
Chief Pilot: William C. Beversluis
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-109A

ATA Asahi Transna Airways P.T.
30th Fl., Ratu Plaza Office Bldg
Jalan Jenderal Sudirmm, Senayan
Jakarta, Indonesia
☎ 711061 ■ 47426
President: Kohei Saitch
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, Forestry, general, Logging, Offshore, Photography
Helicopters: 2-B212, 9-206B

Aurora Helicopters, Inc.
P.O. Box 229
Willow, AK 99688
☎ 907-495-6306
President: Harry M. Craviotto
Chief Pilot: Mose Car
Operations: Agriculture, Air taxi/charter (US part 135), Exploration, External cargo, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: 1-206B

Autair Helicopters (EA) Ltd.
P.O. Box 41951
Nairobi, Kenya
☎ 501658 ■ 22512
President: F.W. Wilcox
V.P. Sales/Marketing: L.O. Svensson
V.P. Public Relations: T.S. Ward-Booth
Chief Engineer: E.F. Kibirige
Operations: Agriculture, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography
Helicopters: 5-206B, 1-47G3

Aviation Services Unlimited
Rural Route 1 - Box 46
Hinman Road
Barneveld, NY 13304
☎ 315-896-2076
President: Lothar G. Stahlberg
Operations Manager: Harold T. Lennon, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, Exploration, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206B, 1-47D1, 1-B47G

B & G Helicopter Corp.
4150 Broadmoor Avenue, S.E.
Grand Rapids, MI 49508
☎ 616-698-9050 ■ 234133 ♦ 616-698-9271
President: Paul E. Geddes
Director of Operations: John Longstreet
Sales Manager: James Bierlein
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 2-206B3, 2-S58T

B.H. Pacific Pty. Limited
P.O. Box 18
Brisbane Airport
Queensland, 4007, Australia
☎ 07-268-4077 ■ 140397 ♦ 07-268-7815
Managing Director: Joseph V. Moharich
Operations: Repair station (FAA certified)
Helicopters: 1-206L

Baltimore Gas & Electric Co.
P.O. Box 1475
Baltimore, MD 21203
☎ 301-234-5000 ■ 7102341670
Manager of Transportation: Rowland E. King
Operations: Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-206B

Benz Sales Company
8900 Trinity Blvd.
Hurst, TX 76053
☎ 817-282-1212 ■ 758-504
Chief Executive Officer: Roy H. Coleman
President: Jack Bell
Vice President: Blair W. Carlson
Operations: Construction, Private owners
Helicopters: 1-47G

Bertea/Aviation Inc.
P.O. Box 606
Corvallis, OR 97339-0606
☎ 503-753-4466 ■ 51059060687
President: Jeanette B. Hennings
Vice President: Richard Bertea
General Manager: Edward W. Hennings
Operations: Air taxi/charter (US part 135), External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-500E, 2-500D, 1-H12E, 1-SL12

Big Valley Aviation Inc.
7535 So. Lindbergh Street
Stockton, CA 95206
☎ 209-982-4991 ■ 5107655162
Secretary/Treasurer: Ray Etcheverry
Operations: Repair station (FAA certified)
Helicopters: 1-47G3, 2-206B, 3-H12E

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332C	Aerospatiale
332J	Aerospatiale
332L	Aerospatiale
341G	Aerospatiale
350B	Aerospatiale
350C	Aerospatiale
350D	Aerospatiale
355E	Aerospatiale
355F	Aerospatiale
360C	Aerospatiale
361	Aerospatiale
365	Aerospatiale
365N	Aerospatiale
109A	Agusta
47B	Bell
47D	Bell
47G	Bell
47G2	Bell
47G3	Bell
47G4	Bell
47G5	Bell
47H1	Bell
47J	Bell
47J2	Bell
47J3	Bell
47K	Bell
204B	Bell
205A	Bell
206A	Bell
206B	Bell
206L	Bell
B212	Bell
214B	Bell
214ST	Bell
222B	Bell
222UT	Bell
412	Bell
BV44	Boeing Vertol
BV47	Boeing Vertol
B107	Boeing Vertol
B234	Boeing Vertol
TCAT	Continental (Bell)
F28A	Enstrom
F28C	Enstrom
F28F	Enstrom
280C	Enstrom
280F	Enstrom
280FX	Enstrom
1100	Fairchild
12E4	Hiller
H12D	Hiller
H12E	Hiller
269A	Hughes/Schweizer
300B	Hughes/Schweizer
300C	Hughes/Schweizer
500A	Hughes/McDonnell Douglas
500C	Hughes/McDonnell Douglas
500D	Hughes/McDonnell Douglas
500E	Hughes/McDonnell Douglas
530F	Hughes/McDonnell Douglas
KV107	Kawasaki
BK117	Kawasaki
B105	MBB
BK117	MBB
R22	Robinson
RH-100	Rogerson/Hiller
S55T	Sikorsky
S58T	Sikorsky/California
S61L	Sikorsky
S61N	Sikorsky
S62	Sikorsky
S64	Sikorsky
S70C	Sikorsky
S76A	Sikorsky
S76B	Sikorsky
SL12	Soloy
UH12E	Soloy
SL47	Soloy
WASP	WASP
WG30	Westland

President: Forrest M. Bird
Operations: EMS/air ambulance
Helicopters: 1-47G3, 1-206B, 1-B212

Biscayne Helicopters, Inc.
11549 S.W. 90th Street
Miami, FL 33176
☎ 305-252-3883
President: Paul H. Barth
Vice President: Robert W. Speakman
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Forestry, general, Gov't contracting, Photography, Pilot training school, Sightseeing
Helicopters: 1-206B

Black Beauty Coal Company, Inc.
P.O. Box 312
Evansville, IN 47702
☎ 812-424-9000
Chief Pilot: Lou Buck
Operations: Corporate (US pt 91, not for hire)
Helicopters: 1-206L1

Board of Civil Aviation
Flight Safety Department
Norrkoping, S 601 79, Sweden
☎ 011-192000 ■ 64250
Flight Inspector: Ragnar Boge
Operations: Gov't agency (not for hire)

Bohemia Inc.
90692 Greenhill Road
Eugene, OR 97402
☎ 503-342-6262 ■ 364442
President: S.E. Pittman
Chief Pilot: Joe Murphy
Operations: Air taxi/charter (US part 135), EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Government contracting, Photography
Helicopters: 1-341G

The Bob Bondurant School of High Performance Driving
Highways 37 and 121
Sonoma, CA 95476
☎ 707-938-4741
President: Robert L. Bondurant
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Private owners, Sightseeing, Traffic surveillance
Helicopters: 1-341G

Boulais Farms
4833 West Country Gables
Glendale, AZ 85306
☎ 602-843-1220 ♦ 602-245-5990
Partner: Richard A. Boulais
Partner: Marcel J. Boulais
Operations: Corporate (US pt 91, not for hire)
Helicopters: 1-206B

Gene Branscome Investments
P.O. Box 1276
Baytown, TX 77520
☎ 713-420-5777
Chief Pilot: R.J. (Ric) Forns
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Photography
Helicopters: 1-206L

Joe Brigham, Inc.
23 Poor Richards Drive
Bow, NH 03301
☎ 603-225-3134
President: Joesph R. Brigham
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: 3-206B3, 1-206L3

Briles Wing & Helicopter, Inc.
16592 Arminta Avenue
Van Nuys, CA 91406
☎ 818-994-1445 ■ 662902
President: Paul Briles
General Manager: Greg W. Briles
Director of Operations: James Lucas
Assistant General Manager: Mike Guest
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Skiing, Traffic surveillance
Helicopters: 5-206B3, 2-206L1, 4-206L3, 1-500D

Bristol-Myers Company
Hangar D-1
Westchester County Airport
White Plains, NY 10604-1791
☎ 914-761-5766
Director of Aviation: Donald Esser
Senior Captain: John Dempsey
Chief of Maintenance: Peter Bonk
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76B

Bristow Helicopter Group Ltd.
Redhill Aerodrome
Redhill
Surrey, RHI 5JZ, England
☎ 01-668-6352 ■ 21913
Managing Director/Chief Executive: Bryan Collins
Director of Operations: Alastair C. Gordon
Director of Engineering: William Petrie
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Government contracting, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 16-S61N, 26-332L, 3-330J, 34-B212, 11-S76A, 14-206B, 6-47G4A, 1-47G2, 2-WS553

Butterworth Aeromed, Inc.
100 Michigan N.E.
Grand Rapids, MI 49503
☎ 616-776-1985
President: Robert E. Reed, M.D.
Chief of Operations/Medical Director: Ralph N. Rogers, M.D.
Director of Operations: David M. Watters
Chief Pilot: William R. Wehling
Director of Maintenance: Daryl T. Hockenberry
Operations: EMS/air ambulance
Helicopters: 1-365N

C.R.I. Helicopters
20881 Cerritos Avenue
Apple Valley, CA 92307
☎ 619-247-5845
President: Chet Rasberry
Maintenance Supervisor: Curtis Stites
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Skiing
Helicopters: 2-500D, 2-206B, 3-B212, 1-204B, 1-206L1

Caesars Atlantic City
P.O. Box 7584
Trenton, NJ 08628-0584
☎ 215-736-8402
Chief Pilot: Robert Doyle
Chief of Maintenance: Don Custer
Senior Captain: Edward Ferguson
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76A

California Department of Forestry
1416 Ninth Street
Sacramento, CA 95814
☎ 916-324-9689
Helicopter Program Manager: Art Trask
Lead Helicopter Pilot: Cecil Gill
Operations: Fire control/support, Forestry, general
Helicopters: 10-UH-1F

California Federal Savings
5670 Wilshire Boulevard, #2580
Los Angeles, CA 90036
☎ 213-932-4661
Chief Pilot: Steve Sirk
Pilot: Steve Hopp
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Cambata Aviation S.A.
Bath Alum - Route 1
Millboro, VA 24460
☎ 703-996-4105 ■ 829402
President: Nelson Cambata
Chairman: K.S. Cambata
Vice President: Doug Ashworth
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L3

William K. Carpenter
Atrium Financial Plaza, Ste. 202
1515 North Federal Highway
Boca Raton, FL 33432
☎ 305-368-0629
Owner: William K. Carpenter
Operations: Private owners
Helicopters: 1-206B

Carraway Aeromedical Services Incorporated
1600 North 26th Street
Birmingham, AL 35234
☎ 205-226-6914
President: Robert P. Carraway, M.D.
Executive Vice President: W.L. (Bill) Benton
Director of Operations: Brooks Wall
Chief Pilot: Harry N. Robinson
Director of Maintenance: Charles Goolsby
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport
Helicopters: 3-206L

Cascade Helicopters, Inc.
407 N. Division
P.O. Box 596
Cashmere, WA 98815
☎ 509-782-2915
President: Fred C. Scaman
Vice President: William H. Wells
Operations Manager: Effie Alvarez
Chief Pilot: William H. Wells, Jr.
Sec./Treasurer/General Manager: James F. Ripley
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-315B, 1-350D, 6-206B3, 2-47G3, 2-SL47

Central Flying Service, Inc.
Adams Field
Little Rock, AR 72202
☎ 501-375-3245
Chairman: Donald Holbert
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 1-206L3, 1-206B

Chevron U.S.A. Inc.
P.O. Box 26845
New Orleans, LA 70186
☎ 504-241-2120 ■ 058243 ♦ 504-241-2120
Manager, Aircraft Services: W.S. Wakefield
Manager, Aircraft Operations: John Randall
Chief Pilot: E.J. Fields
Maintenance Supervisor: R.H. Wild
Operations: Corporate (US part 91, not for hire), Offshore
Helicopters: 17-206B, 7-S76A, 3-S62

Chicago Fire Department Air/Sea Rescue Section
1500 South Lake Shore Drive
Chicago, IL 60605
☎ 312-744-4718
Commissioner: Charles B. Roberts
Operations Manager: George E. Tannehill
A & I: Fred Marshal
Operations: EMS/air ambulance, Fire control/support, Government agency (not for hire), Law enforcement (not for hire), Traffic surveillance
Helicopters: 1-206B, 1-204B, 1-47G4

Brian Chuchua's Jeep, Inc.
776 S. Placentia Avenue
Placentia, CA 92670
☎ 714-879-5337 ■ 655-460 ♦ 714-528-7001
Owner/President: Brian Chuchua
Chief of Maintenance: Bruce Zeier
Operations: Corporate (US part 91, not for hire), Executive transport, Photography, Private owners
Helicopters: 1-F28C, 1-F28O

Churchill Falls Labrador Corp.
P.O. Box 256
Churchill Falls, LB, A0R 1A0, Canada
☎ 709-925-3405 ■ 0162287
President: John Henderson
Operations Manager: Jack Murphy
Chief Pilot, Helicopters: Charles Ramsey
Operations: Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, External cargo, Fire control/support, Patrol (power, pipeline, buried cable)
Helicopters: 1-205A, 1-206B, 1-206L

CIGNA Corporation
Hangar 85-176
Bradley International Airport
Windsor Locks, CT 06096
☎ 203-726-4459
Director/Corporate Aviation: K.R. Qualls
Chief Pilot: William W. Faulkner
Director of Base Operations: William McBride
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A

City of Virginia Beach
Room 225
Public Safety Building
Virginia Beach, VA 23456
☎ 804-427-4192
President/CEO: Thomas H. Muchlenbeck
Emergency Services Coordinator: R. Lee Eskey
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography
Helicopters: 2-47G3

Coastal Air Management
32 Victoria Professional Park
Mystic, CT 06355
☎ 203-536-4971
President: David Kleeman
Chief Pilot: Owen Jones

MISS NEW ORLEANS

And you'll miss the most important gathering in the helicopter industry, when HAI holds the 1989 Annual Meeting and Industry Exposition, January 15-17 in New Orleans, LA. If you are a helicopter operator, you'll miss important advances in helicopter products, a chance to improve managerial operational skills at HAI courses and seminars, and an opportunity to for on-the-spot comparison shopping. If you are an OEM or supplier to the helicopter industry, you will miss the most concentrated gathering of qualified buyers anywhere.

For more information on the 1989 Annual Meeting and Industry Exposition, call HAI headquarters 703-683-4646

Whether you are an operator or supplier, you won't want to Miss New Orleans

Helicopter Association International

1619 Duke St., Alexandria, VA 22314
703/683-4646
FAX: 703/683-4745
Telex: 89-615

Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L3

Colgate-Palmolive Company
333 Industrial Avenue
Teterboro, NJ 07608
☎ 201-288-1811 ■ 134707
Senior Captain: George M. Jones
Chief of Maintenance: Frank DeSanto
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-BK117

Columbia Helicopters, Inc.
P.O. Box 3500
Portland, OR 97208-9952
☎ 503-678-1222 ■ 360307 ♦ 503-678-5841
President: Wesley G. Lematta
Executive Vice President: Roy Simmons
V.P. Safety & Field Operations: James Lematta
V.P. Sales/Marketing: Jon A. Lazzaretti
V.P. Maintenance: Jack Pyle
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 11-B107, 2-B234, 3-H12E, 2-S76A, 1-206B

Commodore Helicopters at Fisherman's Wharf
240 Redwood Highway
Mill Valley, CA 94941
☎ 415-332-4482
President: Lu Hurley
Director of Operations: John L. Heene
General Manager: Roberta Work
Operations: Air carrier, Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 3-206B, 1-206L

Community Helicopters
315 South Main Street
Kannapolis, NC 28081
☎ 704-938-8211
President: Guy R. Maher
Public Relations: Kelli Deloney
Operations: Construction, Executive transport, Photography, Sightseeing
Helicopters: 1-280C

Conoco, Inc.
Aviation Department
Allegheny County Airport
W. Mifflin, PA 15122
☎ 412-469-0443 ■ 256-867
President/CEO: B.R. Brown
Operations Manager: W. Howard Morgan
Chief Pilot: Stanley R. Belvin
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A

Continental Illinois National Bank & Trust Company
Air Transportation
231 S. LaSalle Street
Chicago, IL 60697
☎ 312-923-3576 ■ 253412
Unit Manager, Transportation: Tim Walinski
Maintenance: Chris Overguard
Aviation Safety Officer: Edward Ban
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Executive transport
Helicopters: 3-206L1

Corporate Jets Inc.
Allegheny County Airport
Pittsburgh, PA 15122
☎ 412-462-2800 ■ 62930150 ♦ 412-462-2800
President: Richard M. Ryan
Director of Operations: Jim Rice
Helicopter Operations Manager: Richard G. Miller
Chief Pilot: Bill Italia
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Repair station (FAA certified)
Helicopters: 1-B105, 1-BK117, 1-350D, 2-355F

County of Los Angeles Fire Dept.
Air Operations
12605 Osborne Street
Barton Heliport
Pacoima, CA 91331
☎ 818-890-5755
Chief, Air Operations: James M. Sanchez
Chief of Maintenance: Douglas E. Mathews
Operations: Fire control/support, Government agency (not for hire)
Helicopters: 1-206B, 1-204B, 3-205A

County of Ventura
Public Safety Aviation Unit
275 E. Pleasant Valley Road
Camarillo, CA 93010
☎ 805-484-3601
Pilot: Chris Spangenberg
Operations: EMS/air ambulance, Fire control/support, Government agency (not for hire), Law enforcement (for hire)
Helicopters: 1-47G3, 3-204B

Court Helicopters (Pty) Limited
P.O. Box 2546
D.F. Malan Airport
Cape Town, 8000, South Africa
☎ 021-934-0560 ■ 5-20696
Chairman: J.J.M. Van Zyl
Managing Director: C.J. Labuschagne
Operations Manager: K. Zehrt
Chief Engineer: G. Spreadbury
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, Fire control/support, Offshore, Patrol (power, pipeline, buried cable), Photography, Traffic surveillance
Helicopters: 1-S62A, 4-S58T, 2-S61N, 2-47G5, 9-206B

Crane Helicopter Services, Inc.
P.O. Box 4041
Fremont, CA 94539
☎ 415-657-3001
President: Steven W. Lotspeich
Director of Maintenance: John T. DeStories
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-S58, 1-316B

Crescent Airways, Inc.
7501 Pembroke Road
Hollywood, FL 33023
☎ 305-987-1900 ■ 522-701 ♦ 305-987-1908
Chief Executive Officer: Larry D. Stevens
President: Dean H. Shealy
Director of Operations: William Evans
Director of Maintenance: Gary J. Freeman
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified)
Helicopters: 19-206B, 2-206L

Crew Concepts, Inc.
3815 Rickenbacker
Boise, ID 83705
☎ 208-344-4691 ■ 150026
President: John J. Shelstad
Director of Maintenance: Harold DeGrange
Secretary/Treasurer: Keith Watson
V.P. Public Relations: Charlie Minshew
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Skiing
Helicopters: 1-B212

Crippen Companies
10132 G & H Colvin Run Road
Great Falls, VA 22066
☎ 703-450-5650
Vice President: Lock Crippen
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206B

Cruzeiro Taxi Aereo S/A
Av. Almirante Frontin, 381
Rio de Janeiro, 21030, Brazil
☎ 021-270-8582 ■ 21859
President: Leopoldino C. de Amorin Filho
Superintendent: Renato Jose Rosenburg
Operations: Air taxi/charter (US part 135), Exploration, External cargo, Offshore
Helicopters: 2-330J, 4-350B, 3-206B3

Custom Helicopters Ltd.
Box 249, Station A
Winnepeg, MB, R3R 1B2, Canada
☎ 204-338-7953 ■ 0757133
President: J.M. Hawes
Vice Pres./Operations Manager:
E.W. Derkach
Vice President: D.R. McDougall
Chief Pilot: S.H. Beeman
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **11**-206B

Cypress Helicopters Ltd.
P.O. Box 808
Monterey, CA 93942
☎ 408-372-1191 ■ 330072
President: G. Clifford Gaston
Director of Marketing: Elizabeth French
Secretary/Treasurer: Chris P. Johnson, Esq.
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: **1**-206B3, **1**-206L3

D.H. Braman Company
One O'Connor Plaza
Suite 1100
Victoria, TX 77901-6549
☎ 512-526-2568
Chief Helicopter Pilot: Andrew W. O'Pry
Chief of Maintenance: Dan Wilson
Senior Pilot/Mechanic:
Ambrose A. Connelly, Jr.
Pilot: Larry Reese
Operations: Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Law enforcement (not for hire), Patrol (power, pipeline, buried cable)
Helicopters: **1**-S76A, **1**-SL47

D.O.C., Inc.
5161 River Road
Bethesda, MD 20816
☎ 301-951-1300 ■ 898452
President: Philip E. Hixon
Vice President: Victor Garaycochea
Operations: Executive transport
Helicopters: **1**-206B

Damin Aviation Corporation
900 Lincoln Harbor
Weehawken, NJ 07087
☎ 201-863-7200 ■ 857634 ♦ 201-863-7200
President: Franklyn B. Weichselbaum
Executive Vice President: Bernard D. Lipsitz
Vice President/General Manager:
Matthew S. Zuccaro
Vice President/Sales & Marketing:
Anthony Amanzio
Chief Pilot: Arthur J. Hill
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Electronic news gathering, Executive transport, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: **4**-B222, **12**-350D, **6**-S76A, **1**-206B

Dana Corporation
Route 4
P.O. Box 297A
Swanton, OH 43558
☎ 419-535-4625 ■ 286402
Director: Carl Ramsey
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-S76A

Data General Corporation
4400 Computer Drive
Westboro, MA 01580
☎ 617-366-8911 ■ 7103901217
Chief Pilot: John Anderson
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-206L

Corwin D. Denney
9500 Wilshire Boulevard
Beverly Hills, CA 90212
☎ 213-275-4589
Owner: Corwin D. Denney
Operations: Private owners
Helicopters: **1**-206B

Departamento del Distrito Federal-Servicios Aereos
Apartado Postal 9-007
Mexico, D.F., 15620, Mexico
☎ 905-558-2416
Chief Pilot: Max F. Diaz
Operations: Government agency (not for hire)
Helicopters: **1**-B212

Department of Aviation
Aircraft Data Section
G.P.O. Box 367
Canberra, A.C.T., 2601, Australia
☎ 684589 ■ 62221 ♦ 485239
Aircraft Data Officer: P.H. Meier
Operations: Government agency (not for hire)

Derazona Air Service P.T.
P.O. Box 283
Jakarta, Indonesia
☎ 803427 ■ 48179
President: Asril Lamisi
Director: Atty B. Milyarti
Operations Manager:
Capt. Achmad Machfuld
Maintenance Manager: Budi T. Munadi
Operations: Air taxi/charter (US part 135), Forestry, general, Offshore, Photography, Sightseeing
Helicopters: **7**-206B, **1**-314G

Diamond Shamrock Aviation Co.
Blue Grass Field
Lexington, KY 40510
☎ 606-666-7581
Pilot: Dean Sinor
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-206L

Digital Equipment Corporation
Hangar 5
Hanscom Field
Bedford, MA 01730
☎ 617-276-4980
President: Kenneth Olsen
Aviation Manager: Douglas Hammond
Chief Pilot: Thomas Chestnut
Maintenance Manager: Walter Hansen
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: **6**-206B, **1**-222UT

Dooley Helicopters, Inc.
2003 Flightway Drive
Dekalb Peachtree Airport
Chamblee, GA 30341
☎ 404-458-3431
President: Richard E. Budd, Jr.
General Manager: Ronald S. Lohmeier
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, External cargo, Fire control/support, Forestry, general, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: **6**-206B, **1**-206L, **1**-269C

Dow Jones & Co.
P.O. Box 7006
West Trenton, NJ 08628
☎ 609-882-4516
Chief Pilot: Gregory Miller
Assistant Chief Pilot: Sandy Kaplan
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-B105

Duncan Aviation, Inc.
P.O. Box 81887
Lincoln, NE 68501
☎ 402-475-2611 ■ 484365 ♦ 402-475-5541
Vice President: Chuck Gallagher
Secretary/Treasurer: Harry O. Barr
Manager, Service Marketing: Kevin McGinn
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **1**-206B, **1**-204B, **1**-47J2

Eagle Air Helicopters, Inc.
P.O. Box 1555
Forks, WA 98331
☎ 206-374-9276
President: James D. Mott
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general,

Government contracting, Logging, Photography
Helicopters: 1-500D

EDS Helicopter Division
7171 Forest Lane
Dallas, TX 75230
☎ 214-661-6000
Director of Aviation and Travel: Harry McKillop
Chief Pilot - Helicopter Division: W.A. "Dub" Blessing
Director of Maintenance - Helicopter Div.: Thomas L. Doskocil
Operations: Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: 1-206B, 2-206L

Edwards & Associates, Inc.
P.O. Box 3689
Bristol, TN 37625
☎ 615-538-5111 ■ 553446
President: Robert B. McNab
Vice President: James A. Wolfe
Vice President/Sales: David Blevins
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 4-206B, 1-206L

EG & G Energy Measurements, Inc.
P.O. Box 1912
Las Vegas, NV 89125
☎ 702-295-0511
Chief Pilot: Donald W. Nail
Aviation Safety Representative: James P. Newhouse
Operations: Corporate (US part 91, not for hire), Government contracting, Government agency (not for hire), Law enforcement (not for hire), Photography
Helicopters: 4-B105

EJ Helicopters, Inc.
(Electronic Journalism)
3819 Brilliant Drive
Los Angeles, CA 90065
☎ 213-254-9444
President: Robert H. Pettee, Jr.
Chief Advisor: Neil Bos
Operations: Air taxi/charter (US part 135), Electronic news gathering
Helicopters: 1-206B

El Aero Services, Inc.
P.O. Box 149
Elko, NV 89801
☎ 702-738-7123
President: Joseph W. Green
Service Manager: Ted R. McBride
Chief Pilot: John M. Kelly
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 4-206B, 3-47G3, 1-206L

El Aero Services, Inc.
P.O. Box 437
Ely, NV 89315
☎ 702-289-8804
Base Manager: Jack Fulton
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing, Skiing
Helicopters: See Elko office for fleet information.

Elitos Helicopters S.p.A.
Via Nicolo Paganini, 66
Florence, 50127, Italy
☎ 55-43961 ■ 570616
Senior Director: Gian F. Blower
President: Osvaldo Gigliotto
Vice President: Emilio Drach
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Pollution detection/monitoring
Helicopters: 6-330J, 1-B212, 1-B412, 1-109A, 2-B105

EmergyCare, Inc.
(Life Star Helicopter)
1701 Sassafras Street
Erie, PA 16501
☎ 814-453-7602
President/CEO: C. Earl Gettinger, Jr.
Medical Program Director: Russell Bieniek, M.D.
Assistant Director: Stephen R. Wirth
Chief Flight Nurse: Vicki Huggett
Operations: EMS/air ambulance
Helicopters: 1-BK117

Emerson Electric Co.
P.O. Box 10247
St. Louis, MO 63145
☎ 314-426-1137 ■ 9107651000 ♦ 314-426-4099
Director of Operations: Les Heikkila
Chief Pilot: Paul Stinebring
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B222

K.W. Emerson Inc.
Box 29
Arnold, CA 95223
☎ 209-795-1045
President: Ken Emerson
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-47G3

Emory Aviation, Inc.
P.O. Box 9000
Sherman, TX 75090-0999
☎ 214-786-3333 ■ 730294
Chairman & CEO: Gregory T. Hitchcock
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

ERA Helicopters, Inc.
6160 S. Airpark Drive
Anchorage, AK 99502
☎ 907-248-4422 ■ 09025324 ♦ 907-248-4422
President: David L. Baumeister
Executive Vice President: Charles W. Johnson
Senior Vice President: Will O'Brien

Manufacturer's Key **Code/Manufacturer**

Code	Manufacturer
313B	Aerospatiale
315B	Aerospatiale
316B	Aerospatiale
3160	Aerospatiale
318C	Aerospatiale
319B	Aerospatiale
321J	Aerospatiale
330J	Aerospatiale
330K	Aerospatiale
330L	Aerospatiale
332C	Aerospatiale
332J	Aerospatiale
332L	Aerospatiale
341G	Aerospatiale
350B	Aerospatiale
350C	Aerospatiale
350D	Aerospatiale
355E	Aerospatiale
355F	Aerospatiale
360C	Aerospatiale
361	Aerospatiale
365	Aerospatiale
365N	Aerospatiale
109A	Agusta
47B	Bell
47D	Bell
47G	Bell
47G2	Bell
47G3	Bell
47G4	Bell
47G5	Bell
47H1	Bell
47J	Bell
47J2	Bell
47J3	Bell
47K	Bell
204B	Bell
205A	Bell
206A	Bell
206B	Bell
206L	Bell
B212	Bell
214B	Bell
214ST	Bell
222B	Bell
222UT	Bell
412	Bell
BV44	Boeing Vertol
BV47	Boeing Vertol
B107	Boeing Vertol
B234	Boeing Vertol
TCAT	Continental (Bell)
F28A	Enstrom
F28C	Enstrom
F28F	Enstrom
280C	Enstrom
280F	Enstrom
280FX	Enstrom
1100	Fairchild
12E4	Hiller
H12D	Hiller
H12E	Hiller
269A	Hughes/Schweizer
300B	Hughes/Schweizer
300C	Hughes/Schweizer
500A	Hughes/McDonnell Douglas
500C	Hughes/McDonnell Douglas
500D	Hughes/McDonnell Douglas
500E	Hughes/McDonnell Douglas
530F	Hughes/McDonnell Douglas
KV107	Kawasaki
BK117	Kawasaki
B105	MBB
BK117	MBB
R22	Robinson
RH-100	Rogerson/Hiller
S55T	Sikorsky
S58T	Sikorsky/California
S61L	Sikorsky
S61N	Sikorsky
S62	Sikorsky
S64	Sikorsky
S70C	Sikorsky
S76A	Sikorsky
S76B	Sikorsky
SL12	Soloy
UH12E	Soloy
SL47	Soloy
WASP	WASP
WG30	Westland

Vice President, Maintenance: Dana Rudd
Operations: Air carrier, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Offshore, Repair station (FAA certified)
Helicopters: **16-B212, 12-B412, 2-B222, 3-355F, 23-206B, 4-206L, 23-B105, 12-350D, 1-350B**

ERA Helicopters, Inc.
Gulf Coast Division
P.O. Box 6566
Lake Charles, LA 70606
☎ 318-478-6131 ■ 502-459 ♦ 318-474-3918
Executive Vice President: Charles W. Johnson
Operations: Air carrier, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: See Alaska office for fleet information.

Esso Australia Ltd.
P.O. Box 372
Sale, Victoria, 3850, Australia
☎ 051-495201 ■ AA55120
Helicopter Div. Superintendent: A.R. Adams
Chief Pilot: M.J. Meehan
Senior Maintenance Supervisor: K. Neilson
Aviation Advisor: J.C. Ross
Operations: Commuter/scheduled, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Mechanic training school, Offshore, Photography, Pilot training school, Private owners, Repair station (FAA certified)
Helicopters: **6-S76A, 3-B212, 2-412**

Evergreen Helicopters Inc.
3850 Three Mile Lane
McMinnville, OR 97128
☎ 503-472-9361 ■ 151306 ♦ 503-434-6484
Chairman of the Board: Delford M. Smith
Sr. Vice President Marketing: Robert D. Fox
Senior Vice President: Donna Nelson
Vice President of Maintenance: John Kiesler
Vice President of Operations: Bart Bryant
Director of Operations: Wade Green
Chief Pilot: Terry Olson
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **1-S64, 10-B212, 7-205A, 10-315B, 7-316B, 14-206B, 6-206L, 5-500E, 7-500D, 9-B105, 7-SL12, 2-H12E**

Executive Air Fleet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608
☎ 201-288-8400 ■ 134408 ♦ 201-288-1235
President: J.C. Christiansen
Executive Vice President: W.B. Watt
Executive V.P., Marketing/Sales: M. Moore
Executive V.P., Flight Operations:
C.W. Heugh
Operations: Air carrier, Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: **5-S76A, 1-B105**

Executive Air Taxi Corp.
P.O. Box 2273, Bismarck Airport
Bismarck, ND 58502
☎ 701-258-5024
President: Dennis Rohlfs
Director of Helicopter Operations:
Darrell E. Lewis
Director of Maintenance: Dave Aukes
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **1-206B, 2-206L**

Executive Airlift Helicopters, Inc.
Suite 103
5801 Marvin D. Love Frwy.
Dallas, TX 75237
☎ 214-330-8167
President: Louise Kearney
Manager: Frank G. Kearney
Pilot: Jim Helms
Director of Maintenance: Jesse Zachry
Operations: Air taxi/charter (US part 135), Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: **4-206B**

Executive Transport Inc.
d/b/a Cityhop
Brainard Airport
Hartford, CT 06114
☎ 1-800CITYHOP
President/CEO: Salvatore Nicotra
Director of Operations: Gary Bergeron
Chief Pilot: Frank Bayer
Administrative Director: Marilyn Nemerich
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Photography, Sightseeing
Helicopters: **2-109A, 1-350B**

Express Marine, Inc.
29th St. on the Delaware River
Camden, NJ 08105
☎ 609-541-4600
Chief Pilot: Jeffrey A. Tait
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: **1-206L**

Exuma Aviation, Inc.
Energy Centre - Suite 1950
New Orleans, LA 70163
☎ 504-582-2444
President: J. Alfred Levert, II
Operations: Martha F. Levert
Operations: Private owners
Helicopters: **1-206B3**

Exxon Company USA
P.O. Box 60766
Houston, TX 77205
☎ 713-656-2503
Manager/Aviation: Greg Duesing
Rotorcraft Advisor: W.L. McKeown
Operations: Corporate (US part 91, not for hire), Exploration, Offshore
Helicopters: **5-S76A, 1-206L3, 4-B412**

Falcon Wings, Inc.
4753 Falcon Drive - Suite 3
Mesa, AZ 85205
☎ 602-981-3381
President: Gus E. Bliss
Vice President: Michael T. Honey
Director of Maintenance: Ronald Mofford
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **1-500D**

Finning Tractor & Equipment
Company Limited
555 Great Northern Way
Vancouver, BC, V5T 1E2, Canada
☎ 604-872-4444 ■ 04508717
Pilot: R.J. Jeffrey
Sales Manager: R.M. Kaye
Operations: Corporate (US part 91, not for hire)
Helicopters: **1-341G**

Fleet Helicopter Services
Route 309 & Hilltop Road
Coopersburg, PA 18036
☎ 215-282-4100 ♦ 215-282-4100
President: William H. Thayer
Secretary: Josephine Thayer
Director of Maintenance:
James A. MacConnell
Flight Coordinator: Dean W. Yorgey
Operations: Air carrier, Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **1-B105, 2-BK117, 2-B222, 4-206L1, 9-206B3**

Flight Management Group, Inc.
3860 W. Northwest Highway
Suite 222
Dallas, TX 75220
☎ 214-902-8000 ■ 73-4142 ♦ 214-902-0101
President: J. Carl Paris
Director of Helicopter Operations:
Jim Browning
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Private owners
Helicopters: **1-350B**

These organizations have contributed to the Helicopter Foundation International.

Has yours?

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The Whirly Girls, Inc.
YX Helicopter Service

** Contributions as of Nov. 1, 1987.*

Florida Division of Forestry
Route 14 - Box 700 (Airport)
Tallahassee, FL 32304
☎ 904-488-0959
Chief, Fire Control: Mike C. Long
Aircraft Opertions Manager: Stanley G. Risk
Chief Helicopter Pilot: John M. Glen
Pilot: David Patrick
Operations: Fire control/support, Forestry, general
Helicopters: 2-UH-1E, 1-500D

Florida Power & Light Company
P.O. Box 029100
Miami, FL 33102
☎ 305-552-3858
Manager of Aviation: Breck L. Porter
Helicopter Pilot: Glenn A. Aurelius
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B, 1-206L

Fort Worth Police
Air Support
1400 Nixon Street
Fort Worth, TX 76102
☎ 817-870-8310
Chief Pilot: Al Smith
Pilot: Dave Ankerberg
Pilot: John Faltynski
Mechanic: Kenneth Hughey
Operations: Executive transport, Fire control/support, Government agency (not for hire), Law enforcement (not for hire), Photography, Pollution detection/monitoring, Traffic surveillance
Helicopters: 2-206B3

Fostaire Helicopters
400 N. Leonor K. Sullivan Blvd.
St. Louis, MO 63102
☎ 314-421-5440 ♦ 314-421-5440
Vice President/General Manager:
Clarke M. Thomas
Director of Maintenance: Herb Baldwin
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-47G2, 3-206B3, 1-47J, 1-206L1

Fraser, Inc.
27 Rice Street
Edmundston, NB, E3V 159, Canada
☎ 506-735-5551 ■ 01445538
President: Jim Bowersock
Vice President, Transportation: E.S. Bailey
Chief Pilot: Brian Johnstone
Engineer: John Ouellete
Operations: Corporate (US part 91, not for hire), Executive transport, Forestry, general
Helicopters: 1-206L

Gannett Co., Inc.
P.O. Box 17408
Dulles International Airport
Washington, DC 20041
☎ 703-661-8992 ♦ 703-661-8222
Director, Flight Operations:
John M. Gallagher
Pilot: Jim Durker
Pilot: Bruce Erion
Pilot: Nick Lawler
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Traffic surveillance
Helicopters: 2-206L, 2-206B, 1-365N

Gemini Aviation
444 Regency Parkway - Suite 300
Omaha, NE 68114
☎ 402-393-2144
President/CEO: William Theisen
Director of Operations: Richard Nathan
Manager, Helicopter Operations:
Mike Lambert
Chief Pilot: Ed Graf
Operations: Corporate (US part 91, not for hire), Exploration
Helicopters: 1-206B3

General Electric
Air Transport Operation
Westchester County Airport
White Plains, NY 10604
☎ 914-684-9850
Manager, Rotary Wing Operations:
Thomas R. Messick
Operations: Executive transport
Helicopters: 2-S76B

General Transportation Corp.
2111 Smithtown Avenue
Hangar D
Ronkonkoma, NY 11779
☎ 516-588-5321 ■ 5102286505
Vice President: Guy Salvadore
Director of Flight Operations: Jim McClue
Chief Pilot: Frank X. Cotroneo
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Geo-Seis Helicopters, Inc.
2030 Airway Avenue
Fort Collins, CO 80524
☎ 303-484-3600 ■ 9109309448
President: William T. Browder
Operations Manager/Chief Pilot:
Richard J. Tanner
Director of Maintenance: Carl L. Brunswig
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Skiing
Helicopters: 2-315B, 1-316B, 2-206B

Golden Nugget Transportation Corp.
900 Lincoln Harbor
Weehawken, NJ 07087
☎ 201-863-3050
Aviation Manager: Jonathan G. Watson
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76A

Grand Canyon Helicopters
P.O. Box 455
Grand Canyon, AZ 86023
☎ 602-638-2410 ■ 165-714 ♦ 602-638-9349
President: Elling Halvorson
Vice President: James L. Kahan
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Government agency (not for hire), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: **2**-206L, **7**-206B, **1**-350D

Greenlandair, Inc.
P.O. Box 1012
Dk-3900
Godthaab, Greenland
☎ 24488 ■ 90602
President: Jan K. Rasmussen
V.P./Technical Division: Robert Svedebrant
V.P./Route Division: Jorn Rosenberg
Operations: Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing
Helicopters: **4**-S61N, **5**-206B, **7**-B212

GTS International, Ltd.
635 South Park Avenue
Buffalo, NY 14210
☎ 716-856-6500
President: Neil Lipke
Treasurer/Secretary: Eric Lipke
Operations: Executive transport
Helicopters: **1**-206B

Gulf Coast Helicopters, Inc.
4810 Comal Street
Pearland, TX 77581
☎ 713-485-7345
President/Owner: Edward Acuna, Sr.
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, Executive transport, Exploration, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: **2**-206B

Hartford Helicopters, Inc.
Brainard Airport
Hartford, CT 06114
☎ 203-522-1113 ♦ 203-247-2376
President: Robert O. Brewster
Chief Pilot: Rick Nelson
Chief Inspector: Donald Fisher
Director of Training: W. Michael Wallace
Safety Manager: Cliff Birdsey
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Photography, Repair station (FAA certified), Sightseeing
Helicopters: **4**-S76A, **1**-206B, **1**-B222, **1**-355F, **1**-350D

Hawk Air, Inc.
1423 Moyer Road
R.D. #1
Telford, PA 18969
☎ 215-257-8911
President: Robert Miracle
Director of Operations: Jerry Schmidt
Secretary/Treasurer: Lindy Schmidt
Operations: Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing
Helicopters: **1**-500C

HawkAir, Inc.
115 Executive Center
Hilton Head Island, SC 29928
☎ 803-842-5275
President: R.K. Julseth
Director of Operations: Doug Hulsey
Director of Public Relations: Iva Welton
Operations: Air taxi/charter (US part 135), Sightseeing
Helicopters: **1**-350D

Hawkins & Powers Aviation Inc.
P.O. Box 391
Greybull, WY 82426
☎ 307-765-4482 ■ 551599
President: Daniel J. Hawkins
Operations Manager: Bobby J. Hawkins
Chief Pilot: Jerry S. Ewen
Chief of Helicopter Operations:
John D. Moberly
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing
Helicopters: **4**-H12E, **3**-500D, **1**-206B, **2**-UH1B

Heavenly Valley Helicopters, Inc
P.O. Box 2180
Stateline, NV 89449
☎ 916-541-1330
President/General Manager:
William D. Killebre
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Herding/stock & wildlife, Photography, Sightseeing, Skiing
Helicopters: **1**-500D

Heli-Air Inc.
204 Rue Napoleon
Broussard, LA 70518
☎ 318-856-8163 ■ 5101010395
President: Gary J. Villiard
Vice President: David A. Brown
Director of Operations: Stanley Rose
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Offshore, Sightseeing
Helicopters: **1**-206B, **2**-206L

Heli-Chile Ltda.
Casilla 16-175
Santiago, Chile
☎ 224-3597 ■ 340412
Chairman: Luis Silva de Balboa
President: Eduardo Silva de Balboa
Marketing Manager: Carlos Garcia
Operations Manager: Edward A. Jaeggi
Operations: Agriculture, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, Fire control/support, Forestry, general, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: **1**-B105, **1**-500D, **1**-206B

Heli-Jet Corporation
3830 Cross Street
Eugene, OR 97402
☎ 503-461-0310 ■ 364419
President: Rod Kvamme
Chief Pilot: Wayne Hazard
Director of Maintenance: E. Raymond Yound
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Repair station (FAA certified)
Helicopters: **6**-205A

Heli-Lift, Inc.
P.O. Box 61653
Fairbanks, AK 99706
☎ 907-452-1197 ■ 090-36-637
President: D.D. Luckie
General Manager: L. Michael Rizk
Chief Pilot: Jeff Reed
Safety Manager: Francis Boisseau
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing
Helicopters: **3**-206B3, **3**-206L3, **1**-206L1

Heli Union
4 Avenue de la Porte de Sevres
Paris, 75015, France
☎ 01-4554-9290 ■ 260902 ♦ 01-4554-9290
President: Charles de Rochechouart
General Manager: Christophe Marcilhacy
Marketing Manager: Dominique Lesourd
Operations Manager: Charles Schmitt
Technical Manager: Laurent Rasmont
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school
Helicopters: **2**-318C, **8**-313B, **10**-315B, **16**-316B, **4**-341G, **1**-350B, **3**-355F, **12**-365C, **2**-S76A, **9**-330J, **6**-365N

The Helicopter Line Ltd.
P.O. Box 16
Dunedin, New Zealand
☎ 024-776829 ■ 5393 ♦ 024-779987
Managing Director: Graham Gosney

Executive Director: Donald Spary
General Mgr, South Island: Keith Mitchell
General Manager, North Island: Nigel Ower
Operations: Agriculture, Air taxi/charter (US part 135), Exploration, Fire control/support, Forestry, general, Herding/stock & wildlife, Offshore, Photography, Sightseeing, Skiing
Helicopters: **4**-350B, **22**-206B, **8**-500D, **2**-300C, **1**-UH12ET

Helicopter Minit-Men, Inc.
P.O. Box 21125
Columbus, OH 43221-0125
☎ 614-486-9309
President: Charles W. Thomas
Vice President: Victor J. Speroni
Operations Manager: James L. Murphy
Operations: Agriculture, External cargo, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **4**-H12E, **2**-500C

Helicopter Services of Jacksonville, Inc.
P.O. Box 11727
Jacksonville, FL 32239-1727
☎ 904-641-7398 ■ 522856
President: Judy A. Smith
Chief Pilot: Brian Busch
Chief Mechanic: Mark Sunstrom
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **1**-300C, **1**-206B

Helicopter Systems, Inc.
P.O. Box 221
Scottdale, PA 15683
☎ 412-887-4000 ■ 800-228-1108
President: Dwayne S. Bailey
Vice President/Director of Operations: James M. Lawrence
Director of Maintenance: Darryl J. Bates
Operations: Agriculture, Air taxi/charter (US part 135), Construction, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: **1**-204B, **2**-206B

Helicopteros Andes S.A.
Casilla 10134
Correo Central
Santiago, Chile
☎ 02-2276354 ■ 341536 ♦ 02-699345
President: Jorge Lathrop
General Manager: Edmundo R. Laborde
Operations Manager: Alex E. Casasempere
Maintenance Manager: Fritz H. Dreyer
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Construction, Exploration, External cargo, Fire control/support, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: **3**-500D, **1**-206B3

Helicopteros de Guatemala
Ave. Hincapie 23-30, Zona 13
Aeropuerto La Aurora, Lado Este
Guatemala City, Guatemala
☎ 318282 ■ 5676
Chief Executive Officer: Rene Debroy
Administrative Manager: Ricardo Morataya
Operations Manager: Maria Eugenia Morataya
Chief Pilot: Enrique Haeussler
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: **3**-206B, **1**-WASP

Helicopteros Nacionales de Colombia - "HELICOL" S.A.
Avenida El Dorado, No. 93-30
Piso Cuarto
Bogota, Colombia
☎ 263-7504 ■ 41225
General Manager: Federico Naranjo Meza
Operations Director: Jose B. Manzanera
Chief Pilot: Ernesto Perez Navarro
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Exploration, External cargo, Government contracting, Mechanic training school, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: **1**-204B, **2**-205A, **3**-206B, **7**-206L, **3**-B212

Helicopters Inc.
8227 Gravois
St. Louis, MO 63123
☎ 314-351-1400
President: Stephen C. Lieber
Director of Operations: Allen Barklage
Chief Pilot: Stephen Ogden
Director of Maintenance: David Brown
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: **1**-206L1, **2**-206L3, **9**-206B3, **2**-206B2, **1**-206A, **1**-F28C-2, **1**-F28A, **1**-F28F

Helicopters Unlimited, Inc.
P.O. Box 4115
Oakland, CA 94614
☎ 415-632-9422 ■ 172311
President: John J. McClelland
Vice President, Sales: Ross J. Fay
Secretary/Treasurer: Teri R. McClelland
Chief Pilot: Timothy A. Tatman
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, EMS/air ambulance, Executive transport, External cargo, Government contracting, Offshore, Pilot training school, Repair station (FAA certified)
Helicopters: **2**-206L, **5**-206B, **1**-109A, **4**-F28C

Helijet Aero Taxi Ltda.
Av. Erasmo Braga, 255
12/13 Floors
Rio de Janeiro, 20020, Brazil
☎ 021-224-7282 ■ 02131050 ♦ 021-231-0785
Director: Roberto Luiz Lessa Bastos
Maintenance Manager: Rinaldo Joao Mascherpa
Operations: Gilberto O. Padilha
Operations: Air taxi/charter (US part 135), Executive transport, External cargo, Offshore, Pilot training school
Helicopters: **2**-206B, **9**-350B, **3**-355F

HELIJET, S.A.
Monasterio de Cogullada
Zaragoza, 50014, Spain
☎ 76-29-17-11 ■ 58538 ♦ 76-29-07-83
Chief Executive Officer: Pedro de Wenetz
Chief of Operations: Javier Trasobares
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Forestry, general, Photography, Sightseeing, Skiing
Helicopters: **2**-341G

Helikopter Service A/S
Elveveien 25 B
1324 Lysaker, Norway
☎ 02-590560 ■ 76431
President: Emil Gamborg
Vice President, Commercial Marketing: Jan Bengtson
Vice President of Offshore Operations: Bjorn Moe
Vice President of Engineering: Trygve Eidem
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Fire control/support, Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: **19**-S61N, **13**-332L, **8**-B212, **3**-B234, **3**-214B, **1**-214ST

Helikopteripalvelu
Helsinki-Malmi Airport
00700 Helsinki, 70, Finland
☎ 90-372122
Managing Director: Dick Lindholm
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: **4**-206B, **1**-206L, **1**-360C, **2**-R22H, **1**-300C

Helimares Ltda.
Silvina Hurtado #1691
Providencia
Santiago, Chile
☎ 2514185 ■ 340436
President: Alberto Osorio
Operations Manager: Dante Marchesse
Maintenance Manager: Ricardo Boisier

Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-B105

Helipad Aviation, Inc.
Dimensions Plus Helicopters
P.O. Box 1563
Ukiah, CA 95482-1563
☎ 707-468-5510
President: Timothy W. Morgan
Executive Vice President: Beverly B. Morgan
Chief Pilot: David C. Spokely
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-500C, 1-R22, 1-500D, 2-206B

Heliquip (Pty.) Ltd.
P.O. Box 18011
Rand Airport
Transvaal 1419, South Africa
☎ 011-827-8935 ■ 4-29800
President: P. Piggott
Technical Manager: W.J. McMurdo
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Herding/stock & wildlife, Logging, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring
Helicopters: 3-350B, 1-300C, 1-341G, 1-206B, 3-12E4

Heliservicio Campeche S.A. de C.V.
Citlaltepetl #27
Mexico, D.F., 06100, Mexico
☎ 905-553-6006 ■ 017-72975
General Director: Jorge Escalante King
Director of Administration:
Juan Antonio Gonzalez
Marketing: Carlos Zarate Angelini
Operations: Air carrier, Executive transport, Exploration, External cargo, Offshore, Photography, Repair station (FAA certified)
Helicopters: 9-B212, 3-206B3

HELISWISS, Swiss Helicopter Ltd.
Berne-Airport
Belp, 3123, Switzerland
☎ 31-81-33-11 ■ 911-655 ♦ 31-81-49-86
Chairman, Board of Directors: K. Heinz
President: K. Neuenschwander
Commercial Manager: W. Demuth
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Law enforcement (for hire), Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-214B, 1-205A1, 4-315B, 3-206B, 1-350B

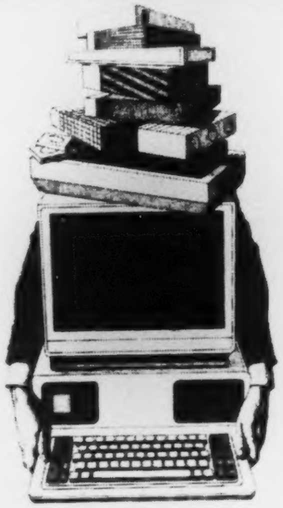
Helitac Aviation, Inc.
1910 W. Sunset Boulevard
Suite 900
Los Angeles, CA 90026
☎ 213-483-6898
General Manager: M. V. Dreesman
Operations Manager: Richard Soto
Operations: Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Electronic news gathering, Executive transport, Photography
Helicopters: 2-206B, 1-206L, 1-500C

Helivalle Ltda.
Carrerra 11 #86-60, Oficina 202
Bogota, Colombia
☎ 257-0635 ■ 45167
President: Miguel R. Espitia Espitia
Operations Manager:
Carlos F. Espitia Lloreda
Chief Pilot: Jaime Pinzon
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Exploration, External cargo, Government contracting, Offshore, Photography
Helicopters: 4-206B, 5-47G5

Helog Ltd.
Helicopter-transports
P.O. Box 271
Kussnacht SZ, 6403, Switzerland
☎ 041 81 48 00 ■ 868269 hel
Managing Director: Leo Caminada
Chief Pilot: Fritz Althaus
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Law enforcement (for hire), Logging, Photography, Pilot training school
Helicopters: 2-315B, 1-350B, 1-109A, 1-350B1

The Henley Group Inc.
Allard Drive
Manchester, NH 03103
☎ 603-627-4338
President: Paul Montrone
Aviation Department Manager:
Arthur Leibowitz
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-109A

Hermann Hospital-Life Flight
6411 Fannin
Houston, TX 77030
☎ 713-797-2788
Manager, Aviation Services: Reid Griffin
Chief Operation Officer: Ron Stutes
Administrative Director/Life Flight:
Keith Staples
Chief Pilot: Eric von Wenckstern
Operations: EMS/air ambulance
Helicopters: 5-355F



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9900 Porter Road
Niagara Falls, NY 14304
☎ 716-297-4497
President: Richard A. Hammond
Director of Operations: Michael J. Knoll
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: **3**-47G5/3, **1**-300C

High Tech Applications, Inc.
P.O. Box 510
Elkins, WV 26241
☎ 304-636-5774
President: Kendall C. Elliott
Partner: Steven H. Blizzard
Chief Pilot & Secretary/Treasurer: Dennis G. Peterson
Sales Director: Brent D. Cayton
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Skiing
Helicopters: **1**-206B

HiLine Helicopters Inc.
47225 Sauk Prairie Road
Darrington, WA 98241
☎ 206-436-1302
President: Anthony B. Reece
Operations: Air taxi/charter (US part 135), EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Sightseeing
Helicopters: **1**-500D

Hillsboro Helicopters Inc.
3301A NE Cornell Road
Hillsboro, OR 97124
☎ 503-648-2831
President/Owner: Jerry V. Trimble
Chief Pilot: Michael K. Moffitt
International Operations: Marcel P. Schubert
Pilot Training Dept. & Sales: James B. Griffin
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Photography, Pilot training school
Helicopters: **2**-R22A, **2**-R22B, **1**-R22HP, **1**-R22STD, **1**-206B2, **1**-500D

Horizon Helicopters Inc.
P.O. Box 7000
Kamloops, BC, V2C 6E1, Canada
☎ 604-554-3434 ■ 048-8417
President: Gary J. Clark
Chief Engineer: Richard Dickie
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable)
Helicopters: **3**-206B, **1**-47B

Hospital AirTransport Inc.
Portland-Hillsboro Airport
P.O. Box 2520
Portland, OR 97208-2520
☎ 503-648-4291 ♦ 503-640-3071
President: Tom Hutson
Director of Operations: Gary Ogle
Chief Pilot: Gene Hill
Director of Maintenance: Tim Touchet
Safety Director: Mike Holtsclaw
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), EMS/air ambulance
Helicopters: **6**-109A

Houston Helicopters, Inc.
P.O. Box 830
Pearland, TX 77588-0830
☎ 713-485-1777 ■ 790461
President: Felton M. Baker
Operations Manager: Jeff Morris
Director of Safety: Joe Pensyl
Director of Training: Brian Cuddeback
Director of Marketing: Jim Shaw
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: **6**-206B3, **3**-B212, **4**-206L1, **2**-S76A

Houston Pipe Line Company
1400 Smith Road
Houston, TX 77002
☎ 713-654-6828 ■ 910 881 6385 ♦ 713-853-3129
Vice President of Operations: Chuck Truby
Regional Director: Jimmy White
Regional Manager: Randy Belyeu
Helicopter Coordinator: Randy Hawley
Pilot: Jim Staten
Operations: Corporate (US part 91, not for hire), Offshore, Private owners
Helicopters: **1**-206B

HubExpress, Incorporated
Minuteman Airfield
Stow, MA 01775
☎ 617-897-5500
President/CEO: Morris E. Flater
V.P./Director of Operations: Joseph C. Gross
Director of Administration: Mary C. Siverson
Director of Sales: William J. Polcsa
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Executive transport
Helicopters: **1**-206B

Hughes Aircraft Company
P.O. Box 7651
Van Nuys, CA 91409
☎ 818-908-5201 ■ 6644880
Chairman of the Board/CEO: Dr. Albert D. Wheelon
Manager, Aeronautical Operations: William B. Jessup
Chief Helicopter Pilot: Philip L. Berg
Operations: Corporate (US part 91, not for hire), Executive transport, Repair station (FAA certified)
Helicopters: **2**-B222

IBM Corporation
Flight Operations
Dutchess County Airport
Wappingers Fall, NY 12590
☎ 914-463-4400 ■ 145362 ♦ 914-435-2729
Chief Pilot: Pete Griffith
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: **1**-B222

Idaho Helicopters, Inc.
2471 Commerce Avenue
Boise, ID 83705
☎ 208-344-4361
President: Raymond J. Franz
Chief Pilot: LeRoy R. Brown
Chief of Maintenance: Roger D. Tromburg
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: **2**-206L, **3**-206B, **1**-315B, **3**-UH12E

Illinois Dept. of Transportation
Division of Aeronautics
Capital Airport
Springfield, IL 62706
☎ 217-785-8380
Chief, Aviation Education & Safety: Richard M. Ware
Director: Robert Coverdale
Manager of Aviation Development: S. Duane Moore
Manager of Flight Operations: Richard Wray
Operations: EMS/air ambulance, Executive transport, Government agency (not for hire), Law enforcement (not for hire), Photography, Pollution detection/monitoring, Traffic surveillance
Helicopters: **2**-206B, **1**-206L, **1**-S76B, **2**-206L3

Illinois State Toll Highway Authority
2001 West 22nd Street
Oakbrook, IL 60521
☎ 312-574-2000
Chief Pilot: Robert M. Gaylord
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: **1**-206L3

Indonesia Air Transport P.T.
Arthaloka Building - 7th Floor
Jl. Jenderal Sudirman No. 2
Jakarta, Indonesia
☎ 586601 ■ 46404
Managing Director: Indra Rukmana
General Manager: Peter Van Veen
Director: R. Soekardjono
Operations Manager: G. Tschernitz

Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable)
Helicopters: **1-318C, 4-316B, 2-365C**

Industrial Helicopters, Inc.
P.O. Box 90210
Lafayette, LA 70509-0210
☎ 318-233-3356
President: J. Oran Richard
Chief Pilot: Kenneth R. Jones
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **5-206B, 3-206L, 2-SL47**

Inland Aero Service, Inc.
16 Union Street
Batavia, NY 14020
☎ 716-343-4471
President: F. Robert Bialkowski
Operations: Agriculture
Helicopters: **2-B47G, 1-TCAT**

International Union of Operating Engineers Local No.138
P.O. Box 206
Gazza Building
Farmingdale, NY 11735
☎ 516-694-2480
Vice President: Gerald J. Quill
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Offshore
Helicopters: **1-206B**

Irish Helicopters, Ltd.
Westpoint Hangar
Dublin Airport
Dublin, Ireland
☎ 376473 ■ 33144
Director/General Manager: Capt. F. Laycock
Operations Manager: Ronald Sivewright
Engineering Manager: Michael Fitzgerald
Commercial Manager: Frederick W. Balcombe
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography
Helicopters: **1-B105, 1-206B3, 1-B212, 2-S61N**

Island Express, Inc.
900 Queens Way Drive
Long Beach, CA 90803
☎ 213-491-5550
President: Les G. Smith
Director of Operations: John E. Moore
Operations: Air taxi/charter (US part 135), Executive transport, Photography, Sightseeing
Helicopters: **1-206L, 2-206L3**

Island Helicopter Corporation
North Avenue
Garden City, NY 11530
☎ 516-228-9355 ■ 146375
Chief Executive Officer/President: Emil V. Cianciulli
V.P., Flight Operations/Chief Pilot: Robert E. Chaves
Vice President, Finance: Peter McGann
Vice President, Sales/Marketing: Donald Gault
Vice President, Technical Services: Patrick Mallen
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Photography, Repair station (FAA certified), Sightseeing
Helicopters: **6-206L, 2-206B, 2-355F, 8-360C, 4-S58T, 2-109A, 1-B222**

J & J Maintenance Inc.
1924 S. First Street
Austin, TX 78704
☎ 512-444-7271
Vice President: Johnny Voudouris
Operations: Government contracting, Private owners
Helicopters: **1-500D**

J. Fletcher Creamer & Son, Inc.
d/b/a J.F.C. Helicopter, Inc.
101 East Broadway
Hackensack, NJ 07601
☎ 201-488-9800
President/CEO: J. Fletcher Creamer, Jr.
Aviation Department Manager/Chief Pilot: Stuart C. DeLeeuw
Operations: Air taxi/charter (US part 135), Executive transport
Helicopters: **1-350D**

Jayrow Helicopters Pty. Ltd.
P.O. Box 46, Mentone
Victoria, 3194, Australia
☎ 587-1833 ■ AA33019
Managing Director: Lindsay Rose
General Manager: Cliff Dohle
Chief Pilot: Peter Clemence
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school
Helicopters: **7-206B, 2-350B**

Jet Aviation Helicopter Services, Inc.
8895 Montview Boulevard
Denver, CO 80220
☎ 303-398-3933 ■ 450-150
Director of Operations: Wendel L. Jasmer
Chief Pilot: Frederick L. Cappol
Director of Maintenance: W. Troy Atkinson
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Logging, Photography, Skiing
Helicopters: **3-315B, 2-316B**

S.C. Johnson Son, Inc.
Aviation Section
2925 Golf Avenue
Racine, WI 53404
☎ 414-631-2707 ■ 264429
Aviation Manager: R.F. Lunde
Helicopter Captain: Robert Root
Operations: Corporate (US part 91, not for hire)
Helicopters: **1-S76A**

KaiserAir, Inc.
P.O. Box 2626
Airport Station
Oakland, CA 94614
☎ 415-569-9622 ■ 4973439 ♦ 415-635-3173
President/CEO: Ronald J. Guerra
Chief Pilot, Helicopter Operations: Jim Rossini
Vice President/Maintenance: Andrew Fitzgerald
Operations: Corporate (US part 91, not for hire), Repair station (FAA certified)
Helicopters: **1-350B**

KCRA TV - Kelly Broadcasting
3 Television Circle
Sacramento, CA 95814-0794
☎ 916-444-7300
President: Jon Kelly
Operations Manager: Don Saraceno
Chief Pilot: Daniel Shively
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Traffic surveillance
Helicopters: **1-206B**

Kenai Air Alaska, Inc.
155 Granite Point Court
Kenai, AK 99611-3921
☎ 907-283-7561 ■ 26507
President: Craig R. Lofstedt
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Offshore, Repair station (FAA certified)
Helicopters: **2-B212, 2-205A, 1-206L, 8-206B, 1-500E**

Keystone Helicopter Services
1420 Phoenixville Pike
West Chester, PA 19380
☎ 215-644-4430 ■ 510-668-5061 ♦ 215-644-7681
Chairman of the Board: Peter Wright, Sr.
President: Peter Wright, Jr.
Vice President/General Manager: Michael D'Aries
Director of Marketing: Mark McCorkle
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: **1-206B, 1-206L, 3-S76A, 4-BK117, 1-500E**

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Kirby N.Y. Realty Company
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Hangar "C"
Westhampton Beach, NY 11978
☎ 516-288-4053
Chief of Helicopter Operation: Elias Ullmann
Chief of Maintenance: Greg Gaden
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206L3

KLM Helikopters B.V.
P.O. Box 7700
Schiphol East, 1117 ZL, The Netherlands
☎ 20-491339 ■ 14233
Managing Director: Frans Bokma
Deputy Managing Director:
M.M.D. van Eeghen
Marketing Manager: M.J. van der Woude
Technical Manager: P.W.J. van de Splinter
Operations: Construction, Executive transport, External cargo, Government contracting, Offshore, Photography, Repair station (FAA certified)
Helicopters: 8-S61N, 4-S76B

The Klewin Companies, Inc.
d/b/a Klewin Air Services, Inc.
40 Connecticut Avenue
Norwich, CT 06360
☎ 203-889-4080
Chairman: Charles R. Klewin
Chief Executive Officer: Steven R. Ross
President: W. Gregory Harville
Operations: Construction, Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-206L1

Knight Aviation Services, Inc.
7000 W. Camino Real
Boca Raton, FL 33433
☎ 305-734-4199
President: William L. Knight
Vice President/Treasurer: Kevin M. Carroll
Director of Operations/Chief Pilot:
Gary M. Hogan
Operations: Air carrier, Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Electronic news gathering, Executive transport, Exploration, Forestry, general, Photography, Sightseeing
Helicopters: 1-206L3

Knoell Bros. Construction, Inc.
P.O. Box 21287
2401 S. 24th Street
Phoenix, AZ 85036
☎ 602-275-7429
Chairman of the Board: Frank E. Knoell, Jr.
President: Thomas E. Knoell
Chief Pilot: Paul E. Uster
Chief of Maintenance: Larry Thomas
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-B222

KPNX Television, Inc.
P.O. Box 711
Phoenix, AZ 85001
☎ 602-257-1212
Chief Pilot: Jerry Foster
Operations: Electronic news gathering, Traffic surveillance
Helicopters: 1-500D

KSL Television
Broadcast House, 5 Triad Center
Salt Lake City, UT 84180
☎ 801-575-5555
Chief Pilot: Dan Brown
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Traffic surveillance
Helicopters: 1-206B

Kumpulan Guthrie Sendirian
Berhad\ Wisma Guthrie
P.O. Box 12516
Kuala Lumpur, 50780, Malaysia
☎ 03-2541644 ■ 30346
Director, Operations: Brian C. Belsham
Chief Pilot: Nasir Ma Lee
Operations: Agriculture, Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: 1-206L1

Lakeland Helicopters Ltd.
P.O. Box 370
Taupo, New Zealand
☎ 074-84532 ■ 63279
Managing Director: Geoff Prince
Chief Pilot: Toby Clark
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-369D, 1-206B, 1-350D

Lapplandsflyg/Lapair AB
Umea Airport
Umea, 90254, Sweden
☎ 90-129050 ■ 54029
President: Bertil Johansson
Operations Manager: Gunnar Forsberg
Maintenance Manager: Tage Stoltz
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Herding/stock & wildlife, Mechanic training school, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-47G2, 1-206L, 2-206B, 1-500D, 1-300C

Lehigh Valley Helicopter, Inc.
P.O. Box 509
Allentown, PA 18105
☎ 215-398-2988
Operatons Manager: John R. Forsht
Operations: Executive transport, Photography
Helicopters: 1-F28A

Liberty Helicopters Inc.
P.O. Box 2041
Point Roberts, WA 98281
☎ 604-946-5581 ■ 04-355577
President/Chief Pilot: Don Crowe
Operations Manager: Cynthia Vernall
Operations: Air taxi/charter (US part 135), Exploration, Forestry, general
Helicopters: 1-B212

Lider Taxi Aereo S.A.
Ave. Santa Rosa No. 123
Pampulha
Belo Horizonte, Brazil
☎ 031-441-9088 ■ 031 1275
President: Jose A. Assumpcao
Director: Walter A. Barro
Operations Manager: Gilberto F. Miranda
Chief Pilot: Wanderley S. Gandra
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 4-205A, 12-206B, 2-S58T, 8-B212, 3-B222, 1-206L3

Lloyd Helicopters (Pte.) Ltd.
1 Colombo Court #09-03
Singapore, 0617, Singapore
☎ 65-3382123 ■ 23735 ♦ 65-3364568
Managing Director: Pat Lloyd
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-206B, 3-315B

Lone Star Helicopters, Inc.
4310 Amelia Erhart
Addison Airport
Dallas, TX 75248
☎ 214-931-5545 ■ 753768 ♦ 214-248-8172
President: Jeffrey Borer
Vice President: Larry Stone
Director of Maintenance: Joe Noland
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-206B, 2-206L

Louisiana-Pacific Corp.
1840 Airport Boulevard
Red Bluff, CA 96080
☎ 916-527-1371
President: Harry A. Merle
Operations Manager: Montel Work
Chief Pilot: Wayne N. Hughes
Chief Pilot/Fixed Wing: David Dix
Operations: Corporate (US part 91, not for hire), Executive transport, Forestry, general
Helicopters: 3-206B, 1-206L3

Lufttransport A/S
P.O. Box 2008, N-9014 Haapet
Tromsoe, Norway
☎ 083-70022 ■ 75885
President: Aage Krog
Executive Vice President: Ragnar Johansen
Vice President/Technical: Svein Bertheussen
Flight Operations Manager: Tore Skaar
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 6-332L, 2-B212, 1-B214, 2-205A, 3-206B, 2-350B

Mack Trucks, Inc.
c/o North East Jet Center
Rural Delivery #4 - ABE Airport
Allentown, PA 18103
☎ 215-439-2102 ■ 847429
Chief Pilot: A. Decker Goetz
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B76A

Macmillan Bloedel Ltd.
Flight Operations
5220 Airport Road
Richmond, BC, V7B 1B4, Canada
☎ 604-278-4807
Chief Helicopter Pilot/Ass't Manager: Doug Hare
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Magnum Leasing & Mortgage Corp.
61 Spit Brook Road
Nashua, NH 03060
☎ 603-891-0003
President: Ronald McLaren
Treasurer: Philip V. De Carolis
Aviation Department Manager: Ted Cieplik
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206B

Malaysian Helicopter
Services Berhad
No. 9A, Jalan Kemajuan, Sec. 13
46200 Peatiling Jaya
Selangor, Malaysia
☎ 03-7561177 ■ 36430 ♦ 03-7553823
Executive Director: Wan Malek Ibrahim
Flight Operations Manager: Peter Wong
Engineering Manager: Moghni Rahmat
Operations: Offshore
Helicopters: 5-S61N, 3-S76A, 4-330J

Maui Helicopters Inc.
P.O. Box 1002
Kihei, HI 96753
☎ 808-879-2622
President: Tony D'Antonio
Director of Operations: Mike Williams
Operations: Air taxi/charter (US part 135), External cargo, Government contracting, Law enforcement (for hire), Photography, Sightseeing
Helicopters: 3-500D

McMahon Helicopter Services, Inc.
Executive Heliport Building
8351 Ronda Drive
Canton, MI 48187
☎ 313-459-5980
President: Brian McMahon
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified)
Helicopters: 3-206B, 1-206L

Metro Aviation, Inc.
625 Market Street
Shreveport, LA 71101
☎ 318-222-5529
President: Mike Stanberry
Director of Operations: Ed Coleman
Chief Pilot: Mark Pyles
Director of Maintenance: Milton Geltz
Operations: Repair station (FAA certified)
Helicopters: 3-B105, 1-206L1, 1-500D

Metro Copters Incorporated
10740 Pine Bluff Road
Whitmore Lake, MI 48189
☎ 313-231-3861
President: Patrick J. Monks
Secretary: Dianne Monks
Chief Pilot: John Sherwin
Director of Maintenance: Mark Valencik
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Private owners, Traffic surveillance
Helicopters: 1-500C

Metropolitan Dade County
Fire Department
6000 S.W. 87th Avenue
Miami, FL 33157
☎ 305-233-5000
Chief Pilot: Robert Apte
Flight Medic Trainer: Lt. Daniel Cuoco
Operations: EMS/air ambulance, Fire control/support
Helicopters: 2-B412

Metropolitan Helicopter Service
952 Holmdel Road
Holmdel, NJ 07733
☎ 201-946-8134
President: Evaristo Cruz, Sr.
Operations Manager: Nick Ferrante
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206L

Miami Helicopter Service, Inc.
3901 NW 145th Street
Suite 171
Opa Locka, FL 33054
☎ 305-685-8223 ■ 153387 ♦ 305-769-3247
President: Randall C. Robinson
Director of Operations: Bill Riggs
Director of Maintenance: Cesar Charris
Chief Pilot: Robert Springer

Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Exploration, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 2-206B3, 1-206L2, 1-500E

Mid-State/Executive Helicopters, Inc.
3675 Crestwood Parkway
Suite 100
Duluth, GA 30136
☎ 404-564-1901
Owner/President: Jack R. Hereth
Director of Operations: Richard L. Santmyer
Chief Pilot: Christiaan Breedt
Chief Airman: Michael Ward
Director of Maintenance: Frank Zielinski
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 2-206B, 8-300C, 1-350B, 1-350D

Mid Valley Helicopters, Inc.
397 Talbot Road S.E.
Jefferson, OR 97352
☎ 503-327-1169
President: Frank Gilmour
General Manager: Jill M. Gilmour
Chief Pilot: Dave Johnson
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 1-206B3, 1-500D, 1-H12E

Midland Helicopters Inc.
104 S. Pecos
Midland, TX 79701
☎ 915-683-7032
Owner-Pilot: Carty Beal
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206L3, 1-B222

Midwest Helicopter Airways, Inc.
Midwest Heliport
525 Executive Drive
Hinsdale, IL 60521
☎ 312-325-7860 ■ [illegible]
President: Richard J. Smith
Vice President: Jack C. Hansen
Secretary/Treasurer: Sue L. Smith
Chief Pilot: Benjamin J. Moore, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Logging
Helicopters: 2-S58T, 2-S58J, 1-206L

Midwest Helicopter Airways, Inc.
1025 Lou Holland Drive
Suite 210-B
Kansas City, MO 64116
☎ 816-471-7988
Operations/Marketing: Joseph Candlish
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Logging
Helicopters: See Hinsdale office for fleet information.

Milliken & Company
P.O. Box 567
Greer, SC 29652
☎ 803-877-8338 ■ 570357
Chief Pilot: David V. Howell
Pilot: Louis L. Sexauer
Pilot: Mackie A. Webb
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Million Air
4300 Westgrove
Dallas, TX 75248
☎ 214-248-1600 ■ 79-1618
President/CEO: Richard Rogers
Director of Operations: Gary McNeice
Helicopter Sales: James Browning
Director of Maintenance: Ken Chitty
Line Pilot: Jerry Fletcher
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Photography, Private owners, Sightseeing
Helicopters: 3-350D, 1-350B

Minnkota Power Co-op, Inc.
P.O. Box 1318
1822 State Mill Road
Grand Forks, ND 58206-1318
☎ 701-795-4430
President: Lyle Lund
Pilot: Tom Cochran
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

Mobil Oil Canada, Ltd.
P.O. Box 800
Calgary, AB, T2P 2J7, Canada
☎ 403-268-7687 ■ 6108210561 ♦ 403-260-7855
Aviation Manager: R.M. McNicol
Operations: Corporate (US part 91, not for hire), Exploration, Offshore

Mobil Oil Corporation
100 First Stamford Place
P.O. Box 10160
Stamford, CT 06904-2160
☎ 203-328-7117 ■ 516906 ♦ 203-328-7162
General Manager: D.M. Sheehan
Aviation Advisor/Helicopters: Carey Howard
Chief Aviation Advisor/Maintenance: James C. Bennet
Operations: Corporate (US part 91, not for hire)

Mobil Oil Exploration & Producing Southeast, Inc.
Aircraft Operations Department
1200 Youngs Road
Morgan City, LA 70380
☎ 504-631-5500 ■ 8109505716
Chief Pilot: W.G. Odom
Chief of Maintenance: B.R. Timberlake
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: 1-S76A, 1-206L3, 7-206L1, 1-206B

Mobil Oil Indonesia, Inc.
Post Bag 400
Jakarta, 10002, Indonesia
☎ 711211 ■ 47431
Transportation Manager: Ray C. Westcott
Chief Pilot: C.S. Asmoro
Operations: Executive transport, Exploration, Offshore
Helicopters: 2-332C, 1-330J

Monterey Peninsula Helicopters
312 W. Carmel Valley Road
Carmel Valley, CA 93924
☎ 408-659-3898
President: Michael P. Marquard
Vice President: Robert E. McDonald, III
Secretary-Treasurer: Diane R. Marquard
Chief Pilot: Robert L. Eversmann
Operations: Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Photography, Sightseeing
Helicopters: 1-206B3

Motorflug GmbH
Airport Baden-Baden
P.O. Box 2080
Baden-Baden, 7570, West Germany
☎ 7221-61003-5 ■ 781129
President: Christoph von Barner
Purchasing Manager: Georg Krome
Technical Publications: Gerhard Herrmann
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Mechanic training school, Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 2-206B

Mountain Bell Flight Operations
12580 E. Control Tower Road
Englewood, CO 80112
☎ 303-790-8228
Director, Corporate Aviation: Dick Bucknell
Chief Pilot: Mike Fergione
Chief, Helicopter Maintenance: Steve Chapel
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable)
Helicopters: 2-206L3

Mountain Rotors, Inc.
(A Wyoming Corp.)
Box 2762
Jackson, WY 83001
☎ 307-733-1633
President/CEO: Gordon Rosenbrook

Vice President/Director: Ken Johnson
Director of Maintenance: Erik C. Gullikson
Operations: Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-206L3

NASA
Ames Research Center
Mail Stop 200-3
Moffett Field, CA 94035
☎ 415-694-5066
Director/Aerospace Systems:
C. Thomas Snyder
Chief/Rotorcraft Flight Investigations:
William Snyder
Chief/Advanced Plan & Program Office:
John Zuk
Chief/Rotary Wing Aeromechanics:
William Warmbrodt
Operations: Government agency (not for hire)
Helicopters: 1-AH-1S, 1-OH-58, 2-UH-1H, 1-SH-3G, 1-CH-47, 1-XV-15, 2-S-72

National Utility Helicopters Ltd. P.T.
Jalan Suryopranoto No. 11-G
Jakarta, Pusat, Indonesia
☎ 4815188 ■ RS36996
President: Rusmiputro Wibisono
Operations Manager: Richard Alzetta
Maintenance Manager: Barry McCutcheon
Maintenance Manager: James Faulks
Branch Manager: Vince Ko
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 7-205A, 1-206B

New Hampshire Helicopters, Inc.
Foss Lane, P.O. Box 1030
Hampton, NH 03842
☎ 603-926-4949
President: Stephen W. Foss
Director of Operations: George F. Vincent
Maintenance: Mark S. Joyce
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206B, 1-206L1, 1-B222, 1-280F

New Horizons Aviation Inc.
P.O. Box 30353
Cincinnati, OH 45230
☎ 513-232-1835
President: William L. Bowman
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 1-F28

New Jersey Bell Telephone Co.
540 Broad Street, Room 1400
Newark, NJ 07101
☎ 201-649-2813
Manager, Service Bureau: John J. White
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

New York State Police
State Campus
Building 22
Albany, NY 12226
☎ 518-457-5929
Director of Operations: Col. Gary E. Preston
Chief Pilot: Capt. L. Grosso
Pilot: Lt. J. McNamara
Pilot: Lt. T.C. Grover
Operations: EMS/air ambulance, Executive transport, Government agency (not for hire), Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: 1-B222A, 1-B222UT, 2-B206L1, 1-206L3, 1-47G3

NOVA an Alberta Corporation
Aviation Department
P.O. Box 3646 - Station D
Edmonton, AB, T5L 4J6, Canada
☎ 403-423-8266
Aviation Manager: Doug Godsman
Chief Pilot: Ian McLeod
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-206B, 2-AS355

Northrop Corporation
Electro-Mechanical Division
500 E. Orangethorpe Avenue
Anaheim, CA 92801
☎ 714-441-4027 ■ 655417
Administrator/Helicopter Ops.:
Todd A. Miller
Operations: Government contracting, Government agency (not for hire)
Helicopters: 1-B212

Norwegian Air Ambulance
P.O. Box 94
1441 Drobak, Norway
☎ 02-93-21-60 ■ 72458 ♦ 02-93003-99
General Manager: John G. Mjavatn
Operations Manager: Per Gjertsen
Technical Manager: Tor Lubbe
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Law enforcement (for hire), Photography, Sightseeing, Traffic surveillance
Helicopters: 4-B105

Okanagan Helicopters Ltd.
4391 Agar Drive
Richmond, BC, V7B 1A5, Canada
☎ 604-278-5502 ■ 04355594 ♦ 604-278-1637
President & General Manager:
Patrick A. Aldous
Senior Vice President: Fred A. Moore
General Manager, Operating Div.:
Dick Everson
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance,

1 FLY NEIGHBORLY
HELICOPTER ASSOCIATION INTERNATIONAL

HAI Wants You to FLY NEIGHBORLY

What's it all about?

- **Reducing helicopter noise**
- **Improving community relations**
- **Achieving public acceptance of the helicopter**
- **Civil and military cooperation**

Started six years ago, helicopter pilots, managers, operators, and communities throughout the United States applaud this innovative approach to helicopter noise reduction. Through training, flight operations planning, and sensitivity to community concerns, operators learn how they can contribute to greater public acceptance of the helicopter.

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Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-3406
703-683-4646

Exploration, External cargo, Fire control/support, Forestry, general, Government agency (not for hire), Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: **54**-206B, **4**-206B3, **3**-206L, **4**-206L1, **2**-204B, **18**-B212, **6**-500D, **5**-350B, **4**-332C, **3**-S61L, **6**-S61N, **11**-S76A

Omniflight, Inc.
105 Wappoo Creek Drive
Suite 1-A
Charleston, SC 29412
☎ 803-762-1620 ■ 62970299
Chairman: Daniel Parker
Executive Vice President: Ron Wisner
Executive Vice President/Operations: Bruce Stoehr
Director, Maintenance Services: Hans Hilkhuysen
President, Omniflight Airways, Inc.: Dan McKenzie
President, Omniflight Offshore, Inc.: John Davis
Vice Pres./Omniflight Helicopter Services: Charlie Robinson
Vice Pres./Omniflight Helicopters, Inc.: Mark Wittman
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Electronic news gathering, EMS/air ambulance, Executive transport, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: **3**-WG30, **25**-206B, **15**-206L, **4**-B222, **1**-B212, **8**-B105, **9**-BK117, **9**-300C

Onandaga County Sheriff's Department
Cessna Drive, Hangar 4
Warners, NY 13164
☎ 315-425-3095
Major: J.A. Mehlek
Operations Manager: P.C. Zemenz
Chief Pilot: Carl L. Mosegard
Chief Mechanic: Henry Newman
Operations: EMS/air ambulance, Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: **1**-206B

Ontario Hydro
Hangar 10
2450 Derry Road East
Mississauga, ON, L5S 1B2, Canada
☎ 416-677-1330 ■ 06-217662
Superintendent, Helicopter Services: J.R. Benben
Supervisor, Helicopter Maintenance: W. Hopper
Manager/Central Maintenance: W. Andrew Humphries
Pilot Supervisor: John M. Carnie
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: **2**-S58T, **5**-206B, **1**-206L1

Orlando Helicopter Airways, Inc.
P.O. Box 2802
Orlando, FL 32802
☎ 305-841-3480 ■ 564400 ♦ 305-740-6451
President: Fred P. Clark
Senior Vice President: Bradley Clark
Vice President/Marketing: Troy Simmmons
Secretary/Treasurer: Nora Schmidt
Operations: Construction, External cargo, Repair station (FAA certified)
Helicopters: **1**-S58T, **2**-S55, **1**-S52A

Ostermans Aero AB
Box 422
Jarfalla, S-175 25, Sweden
☎ 08-760-27-20 ■ 17294 & 13485 ♦ 08-760-8112
President: Ragnar Frimodig
Vice President: Leif Taub
Technical Director: Henrik Elinder
Director of Operations: Goran Criborn
Chief Pilot: Olof Wikman
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Construction, External cargo, Government contracting, Offshore, Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: **5**-206L, **1**-206B, **1**-280C, **1**-222UT

P.A.B. Aviation
c/o Aero Services
Morristown Municipal Airport
Morristown, NJ 07960
☎ 201-538-3241
President: Robert Brennan
Director of Operations: Randal Opat
Helicopter Captain: Jim Robinson
Mechanic: Jim Dewitt
Operations: Executive transport
Helicopters: **1**-355F, **1**-206B

P.T. Gatari Hutama Air Service
Terminal Building - 2nd Floor
Halim P.K. Airport
Jakarta, 13610, Indonesia
☎ 803428 ■ 48476
President: Hutomo M. P.
General Manager: Kabul Riswanto
Operations Manager: Harry Purnomo
Maintenance Manager: Mr. Suharyanto
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Forestry, general, Logging, Offshore
Helicopters: **7**-B412, **9**-B212, **2**-206B

P.T. Pelita Air Service
Jl. Abdul Muis 52-54
Jakarta, 10160, Indonesia
☎ 3801230 ■ 46462
Director: W. Mulyono
Operations Manager: Capt. Oediyono
Technical Manager: Othman Moelia
Marketing Manager: S. Drijono
Head of Public Relations: Mrs. Penny Rahardjo
Operations: Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Pilot training school
Helicopters: **12**-330J, **5**-500C, **5**-B105, **4**-S76A, **4**-330J, **4**-332J, **30**-B105

Pacific Lumber & Shipping Co.
P.O. Box 21785
Seattle, WA 98111
☎ 206-682-7262
President: Charles L. Spence
Operations Manager: Michael S. Davenport
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Forestry, Photography, Sightseeing
Helicopters: **1**-206B

Manufacturer's Key Code/Manufacturer

Code	Manufacturer
313B	Aerospatiale
315B	Aerospatiale
316B	Aerospatiale
316O	Aerospatiale
318C	Aerospatiale
319B	Aerospatiale
321J	Aerospatiale
330J	Aerospatiale
330K	Aerospatiale
330L	Aerospatiale
332C	Aerospatiale
332J	Aerospatiale
332L	Aerospatiale
341G	Aerospatiale
350B	Aerospatiale
350C	Aerospatiale
350D	Aerospatiale
355E	Aerospatiale
355F	Aerospatiale
360C	Aerospatiale
361	Aerospatiale
365	Aerospatiale
365N	Aerospatiale
109A	Agusta
47B	Bell
47D	Bell
47G	Bell
47G2	Bell
47G3	Bell
47G4	Bell
47G5	Bell
47H1	Bell
47J	Bell
47J2	Bell
47J3	Bell
47K	Bell
204B	Bell
205A	Bell
206A	Bell
206B	Bell
206L	Bell
B212	Bell
214B	Bell
214ST	Bell
222B	Bell
222UT	Bell
412	Bell
BV44	Boeing Vertol
BV47	Boeing Vertol
B107	Boeing Vertol
B234	Boeing Vertol
TCAT	Continental (Bell)
F28A	Enstrom
F28C	Enstrom
F28F	Enstrom
280C	Enstrom
280F	Enstrom
280FX	Enstrom
1100	Fairchild
12E4	Hiller
H12D	Hiller
H12E	Hiller
269A	Hughes/Schweizer
300B	Hughes/Schweizer
300C	Hughes/Schweizer
500A	Hughes/McDonnell Douglas
500C	Hughes/McDonnell Douglas
500D	Hughes/McDonnell Douglas
500E	Hughes/McDonnell Douglas
530F	Hughes/McDonnell Douglas
KV107	Kawasaki
BK117	Kawasaki
B105	MBB
BK117	MBB
R22	Robinson
RH-100	Rogerson/Hiller
S55T	Sikorsky
S58T	Sikorsky/California
S61L	Sikorsky
S61N	Sikorsky
S62	Sikorsky
S64	Sikorsky
S70C	Sikorsky
S76A	Sikorsky
S76B	Sikorsky
SL12	Soloy
UH12E	Soloy
SL47	Soloy
WASP	WASP
WG30	Westland

Pasadena Police Department
Helicopter Section
142 N. Arroyo Parkway
Pasadena, CA 91103
☎ 818-405-4625
Second in Charge: Sgt. Terry M. Blumenthal
Accounting Officer: Dennis M. Henslee
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography
Helicopters: 3-F28C, 1-206B3

Pay-Jay Air, Inc.
207 S. Fourth Street
Artesia, NM 88210
☎ 505-748-1331
President: Peggy A. Yates
Vice President: John A. Yates
Chief Pilot/Director of Operations:
Wallace (Van) Nicholas
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Private owners, Sightseeing
Helicopters: 1-350B

Nolan A. Perin, Inc.
1963 Pen Argyl Road
Pen Argyl, PA 18072
☎ 215-863-6057
President/CEO: Nolan A. Perin
Director of Operations/Chief Pilot:
Randy R. Freeman
Special Projects Manager: Harry Smith
Operations: Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: 1-206B3

Perkinson Copters, Inc.
P.O. Box 338, PCI Heliport
Warrensburg, IL 62573
☎ 800-673-4323
President: Roy S. Phillips
Operations: Agriculture, Air taxi/charter (US part 135), Electronic news gathering, Fire control/support, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 3-300C

Petroleos Mexicanos
Apartado Postal 30-285
Admon. Correos 39
Mexico, D.F., Mexico
☎ 7-63-50-47 ■ 01777216
President/CEO: Ismael Avalos Jimenez
Chief of Operations:
Pedro Martinez Skossowski
Operations: Commuter/scheduled, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Government agency (not for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 7-330J, 11-S76A, 11-B212, 2-206B, 2-316B, 1-205A

Petroleum Air Services (PAS)
P.O. Box 2711
Cairo, Egypt
☎ 609058 ■ 21404
Chairman & Managing Director: Amir Riad
Deputy Managing Director: Mohsen Hassan
Assistant Managing Director:
Tameem Fahmy
Technical Support Manager: Robert Ingle
Operations: Commuter/scheduled
Helicopters: 14-B212, 6-206L, 2-206B, 1-B222

Petroleum Helicopters, Inc.
P.O. Box 90808
Lafayette, LA 70509
☎ 318-235-2452 ■ 586670 ♦ 318-235-3424
Chairman of the Board: Robert L. Suggs
President: Frank W. Lee
Vice Chairman of the Board: M.M. Bayon
Vice President/General Manager:
Carl Dougherty
Chief Pilot: Vernon E. Albert
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 96-206B, 115-206L, 34-B212, 35-355F, 14-B412, 33-350D, 8-B222, 2-214ST, 14-B105, 9-330J, 19-S76A

Pfizer, Inc.
P.O. Box 7350
West Trenton, NJ 08628
☎ 609-771-0550
Chairman of the Board & CEO: E.T. Pratt
Chief Pilot/Helicopters: Robert D. Pongrac
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-365N

Pirelli S/A
Alameda Barao de Piracicaba, 740
Sao Paulo, 01216, Brazil
☎ 220-8011 ■ 011-21722
Operations Manager: Carlo de Bellegarde
Operations: Corporate (US part 91, not for hire), Executive transport, Repair station (FAA certified)
Helicopters: 2-206B

Port Authority of New York
and New Jersey
121-B Billy Diehl Road
Teterboro Airport
Teterboro, NJ 07608
☎ 201-288-2761 ♦ 201-288-0308
Manager of Heliports: Philip J. Landi
Operations: Government agency (not for hire)
Helicopters: 1-B222, 1-222U

Portland General Electric Company
121 S.W. Salmon Street
Portland, OR 97204
☎ 503-226-8820
President: William Lindblad
Vice President: H. Lueddeman
Facilities Manager: Lee Hodges
Corporate Pilot: Bill Griffiths
Operations: Corporate (US part 91, not for hire), Patrol (power, pipeline, buried cable)
Helicopters: 1-B105

Ptarmigan Helicopters, Inc.
1553 Snyder Gulch Road
Evergreen, CO 80439
☎ 303-674-2487
President: David F. Youngblood
Vice President: David A. Youngblood
Director of Maintenance: Keith Kalbach
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-SL47, 1-315B, 1-332C, 1-206B3

Public Service Co. of Colorado
8645 Montview Boulevard
Denver, CO 80220
☎ 303-329-1032
Aviation Operations Manager:
H.E. (Hal) Ravnsborg
Senior Helicopter Pilot: Richard Van Dusen
Helicopter Pilot: Patrick Parkhill
Senior Aircraft Mechanic: Bob Wells
Operations: Corporate (US part 91, not for hire), External cargo, Patrol (power, pipeline, buried cable)
Helicopters: 1-206B3, 1-206L3

Public Service Company of Indiana
1000 E. Main Street
Plainfield, IN 46168
☎ 317-838-1575
Director of Operations Support: Bob Fox
Chief Pilot: James F. Friday
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-206B

Public Service Electric and Gas Company
80 Park Plaza, T-12A
Newark, NJ 07101
☎ 210-430-6059 ■ 710-995-4442
Manager, Administrative Operations:
C. Richard Jaggers, Jr.
Vice President, Trasmission & Distribution:
Randolph D. Stys
Senior Corporate Pilot: John T. James
Senior Corporate Pilot: William E. Crowell
Operations: Corporate (US part 91, not for hire), EMS/air ambulance, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-350D, 1-355F

Puget Sound Helicopters Inc.
8535 Perimeter Road South
Seattle, WA 98108
☎ 206-762-8273
President: Paul W. Brendle, II
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Law enforcement (for hire), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206B3, 2-F28C, 1-F280C

Rambling Rotors, Inc.
Route 2, P.O. Box 2744
La Grande, OR 97850
☎ 503-963-5644
President: William L. Knight
Vice President: Kemit Knight
Secretary: Hilda Knight
Chief Pilot: Craig Ackley
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: **2-206B, 1-206L1**

Rancon Realty Fund IV & V
2061 Business Center Drive
Suite 213
Irvine, CA 92715
☎ 714-833-3200
Managing Partner: John E. Quinton
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: **1-500D**

Ranger Helicopters (Canada)
5455 Airport Road South
Richmond, BC, V7B 1B5, Canada
☎ 604-270-4143 ■ 04-357691 ♦ 604-270-3224
Western Operations Manager: Joseph Barr
Chief Pilot/Western Division: Don Farkas
Marketing: Tim Christiaens
Chief Engineer: Mark Trainor
Operations: Commuter/scheduled, Construction, Executive transport, Exploration, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: **3-204B, 4-206B, 1-205A, 4-206L1, 1-206L, 1-500D**

Reavcom Services Inc.
Spring Valley Airport
Smith Road
Spring Valley, NY 10970
☎ 212-344-7920 ■ 7105812436
President: Thomas E. Christman
Vice President: Edwin W. Fuller, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: **1-350B**

Recon Air, Inc.
P.O. Box 815695
Dallas, TX 75381-5695
☎ 214-960-8600 ■ 6502478623
President: C. Keith Thompson
Vice President: Timothy J. McKenna
Operations: Air taxi/charter (US part 135), Exploration, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: **2-206B**

Redding Air Service, Inc.
Municipal Airport
6831 Airway Avenue
Redding, CA 96002
☎ 916-221-2851
President: J. Burt Train
Operations: Air taxi/charter (US part 135), Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: **3-206B3, 1-350B**

Redstone Aero Services, Inc.
Walker Field
Grand Junction, CO 81506-8605
☎ 303-242-4923
President: John H. Linke
Operations: Air taxi/charter (US part 135), External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Sightseeing
Helicopters: **1-500D**

Reeder Flying Service, Inc.
Route 2, Box 5300
Twin Falls, ID 83301-9617
☎ 208-733-5920
President: John W. Reeder
Vice President: Charles R. Reeder
Director of Maintenance: Ron Bortz
Director of Marketing: Gary McCall
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: **4-206B3, 2-206L3**

Reem Air Ltd.
744 South Indiana
Brownsville, TX 78521
☎ 512-831-4482
President/CEO: Benajamin Riley
General Manager: Joseph Sandlin
Director of Operations: Rick Remey
Chief Pilot: Ken Wilson
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, Fire control/support, Government contracting
Helicopters: **1-350D**

Reforestation Services, Inc.
5669 Commercial Street, S.E.
P.O. Box 3179
Salem, OR 97302
☎ 503-362-8322
President: G.E. Liming
Vice President: L.J. Liming
Chief Mechanic: Lynn Ankrum
Operations: Agriculture, Air taxi/charter (US part 135), External cargo, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: **5-H12E**

Relair Inc.
P.O. Box 384
Palm Beach, FL 33480
☎ 305-659-3711
Partner: George G. Matthews
Operations: Corporate (US part 91, not for hire), Photography
Helicopters: **1-206B**

Resorts International Airlines, Inc. (RIA)
900 Lincoln Harbor Heliport
Weehawken, NJ 07087
☎ 201-865-6900 ■ 128166
Director of Operations: Sanford B. Goldstein
Director of Maintenance: Robert Serafini
Chief Pilot/VFR: Raymond Ferrante
Chief Pilot/IFR: Richard Kimble
Operations: Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Photography, Sightseeing
Helicopters: **3-S61N**

Robert B. Milligan, Jr.
P.O. Box 1100
Southport, CT 06490
☎ 203-254-2200
Owner: Robert B. Milligan, Jr.
Operations: Private owner
Helicopters: **1-R22**

Rockwell International
Hanford Operations
P.O. Box 800
Building 2721EA - 200 E. Area
Richland, WA 99352
☎ 509-373-1992
President: Paul G. Lorenzini
Chief Hanford Patrol: B.G. Essary
Chief Pilot: Vernon L. Estes
Operations: Government contracting, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: **2-350D**

Rockwell International Corp.
600 Grant Street
Pittsburgh, PA 15219
☎ 412-565-5814
Director/Flight Operations: N.M. Thomas
Chief Helicopter Pilot: Andrew Coster
Chief Helicopter Pilot (LAX): Clay Alexander
Operations: Corporate (US part 91, not for hire)
Helicopters: **2-355F, 1-B222**

Rocky Mountain Helicopters, Inc.
P.O. Box 1337
Provo, UT 84603-1337
☎ 801-375-1124 ■ 388-378 ♦ 801-375-1124
President: James B. Burr
Vice President: Robert C. Burr
V.P. Operations/Safety: Don Andrews
Executive Director/Medical Group:
Russ Spray
Chief Pilot: Larry Doll
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general,

Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Skiing, Traffic surveillance
Helicopters: **2**-214B, **5**-316B, **9**-319B, **6**-206L, **14**-BK117, **7**-315B, **2**-500D, **2**-300C, **23**-350D, **6**-355F, **5**-B105

Rogers Helicopters, Inc.
P.O. Box 4
Clovis, CA 93613
☎ 209-299-4903 ■ 176948
President: R. Harry Rogers
Executive Vice President: Wanda L. Rogers
Director of Operations: Rory S. Rogers
Chief Pilot: Robin M. Rogers
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Offshore, Repair station (FAA certified)
Helicopters: **3**-350D, **1**-530F, **5**-206B3, **4**-206L, **1**-UH-1B, **2**-B212, **1**-S61L, **1**-B105, **1**-500E, **1**-1100

Rorer Group Inc.
500 Virginia Drive
Fort Washington, PA 19034
☎ 215-628-6497 ■ 510-661-1306
Aviation Manager: Gary A. DiVincenzo
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-350D, **1**-109A

Royale Helicopter Service, Inc.
P.O. Box 127
Burgettstown, PA 15021
☎ 412-947-3366
President: Barth W. Bartholomae
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: **2**-206B, **1**-206L1

Sabah Air Pte Ltd.
Kota Kinabalu Int'l Airport
Locked Bag 113
88999 Kota Kinabalu, Malaysia
☎ 088-51326 ■ 80073
General Manager/CEO: Tony Liew
Chief Pilot: Capt. V. Thiagarasah
Chief Engineer: Rochester Lo
Project Engineer: Stephen Chin
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Forestry, general, Government contracting, Offshore, Photography
Helicopters: **7**-206B, **1**-B212

Salt River Project
P.O. Box 1980
Phoenix, AZ 85001
☎ 602-236-2479
President: J.R. McNamara
Manager, Flight Operations:
William F. Hines
Operations: Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable)
Helicopters: **1**-206B

San Diego Helicopter Service, Inc.
7025 Manya Circle
San Diego, CA 92154
☎ 619-423-1717 ■ 183973
President: Michael A. Zolezzi
Operations: Air carrier, Corporate (US part 91, not for hire), Government agency (not for hire), Law enforcement (not for hire), Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Traffic surveillance
Helicopters: **1**-500C

Schiavone Construction Co.
1600 Paterson Plank Road
Secaucus, NJ 07094
☎ 201-867-5070
Chief Pilot: C.J. Harper
Helicopter Pilot: E.R. Arnold
Charter Coordinator: Debbie Del Donna
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: **1**-206B, **1**-355F

Joseph E. Seagram & Sons, Inc.
Hangar 6
Westchester County Airport
White Plains, NY 10604
☎ 914-761-4915
Chief Pilot: Paul Zill
Operations: Corporate (US part 91, not for hire)
Helicopters: **2**-109A

Sealand Helicopters Ltd.
P.O. Box 5188
Saint Johns, NF, A1C 5V5, Canada
☎ 709-576-4911 ■ 016-3159 ♦ 709-576-2192
President: J.C. Jones
Senior Vice President: Mark Dobbin
Operations Manager: Robert Freeman
Vice President/Maintenance & Engineering:
Alex Smith
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **7**-206B, **7**-206L, **3**-350D, **7**-332L, **1**-B105

Sears Roebuck and Company
5130 West 63rd Street
Chicago, IL 60638
☎ 312-585-1282 ■ 25211
Chief Pilot: C. E. Smith
Operations: Corporate (US pt 91, not for hire)
Helicopters: **1**-S76A

Sebastiani Helicopters
1021 Briardale Road
Harrisburg, PA 17109
☎ 717-564-8615
President: Albert Sebastian
Chief Pilot/Director of Operations:
Richard E. Myers
Operations: Air taxi/charter (US part 135), Executive transport, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: **1**-206B2

Security Ford Tractor, Inc.
3828 Washington Boulevard
Baltimore, MD 21227
☎ 301-247-9600
President: James G. McManus
Vice President: John J. Torrillo
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-500D

Security Pacific National Bank
Helicopter Section
4310 Donald Douglas Drive
Suite 101
Long Beach, CA 90808
☎ 213-496-2430 ♦ 213-425-0238
Senior Flight Officer: Harold W. Bingaman
Flight Officer: William A. Comi
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-109A

Selecta Aero Taxi Ltda.
Alameda Santos 1.357
30 Andar
Sao Paulo, 01419, Brazil
☎ 2840294 ■ 1123084
Managing Director: Silveira Milton Malta
Operations Technical Manager:
Roberto Ebert
Administrative Manager:
Arthur Bellini Neto
Operations: Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: **2**-350B

Servicio Aereo Litoral Ltda.
Casilla 4014
Santiago, Chile
☎ 02-2259792 ■ 240585
Managing Director: Folke Bergstrom
Technical Manager: Hernan Middleton
Chief Pilot: Carlos Bayer
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Sightseeing, Skiing
Helicopters: **2**-365, **3**-316B

Helicopter Association International's

SALUTE TO EXCELLENCE AWARDS PROGRAM

Since 1960, the Helicopter Association International's Salute to Excellence Awards Program has recognized the dedication, loyalty and excellence of individuals and organizations from every sector of the helicopter industry. The 1988 Salute to Excellence Awards reflect our continued drive for excellence in a dynamic industry. By recognizing the extraordinary merit of an individual or organization, HAI applauds and encourages the attainment of higher standards of professionalism. Please take the time to honor a colleague. HAI will accept nominations until November 1, 1988 for the following thirteen prestigious awards:

- **Lawrence D. Bell Memorial Award**
- **Crew of the Year Award**
- **Excellence in Communications Award**
- **Fly Neighborly Award**
- **Helicopter Maintenance Award**
- **McDonnell Douglas Law Enforcement Award**
- **MBB Golden Hour Award**
- **Outstanding Certified Flight Instructor Award**
- **Pilot of the Year**
- **HAI Safety Award**
- **Raise Your Sites Award**
- **Max Schumacher Memorial Award**
- **Robert E. Trimble Memorial Award**

Award Nomination Forms are available from:
HAI, 1619 Duke Street,
Alexandria, VA 22314-3406,
or call:
703-683-4646

Servicio Tecnico Aeronautico
(Heliservicio Campeche S.A.)
Aeropuerto Internacional
Merida, Yucatan, Mexico
☎ 24-72-90 ■ 753863
Company Representative:
Angel Hernandez Barrera
Operations: Repair station (FAA certified)
Helicopters: See Heliservicio Campeche S.A. in Mexico City for fleet information.

Shamrock Coal Company
P.O. Box 130
Manchester, KY 40962
☎ 606-598-6151
Chief Pilot: Elmer R. Barbee
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-355F

Shannon Executive Aviation Ltd.
E. Ramp - Shannon Airport
County Clare, Ireland
☎ 061-61211 ■ 24055
Managing Dir./Chief Pilot: B. A. Carpenter
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 1-269B, 1-222A

Shell Aircraft Limited
Cardinal Point, Newall Road
London (Heathrow) Airport
Hounslow, Middlesex, TW6 2HF, England
☎ 01-7594531 ■ 919651 ♦ 01-759-4582
Managing Director: C.R. Moss
Operations Director: Richard W.H. Browne
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: 4-S61N, 1-365N

Shell Oil Company
P.O. Box 60828
Houston, TX 77205
☎ 713-443-3881 ■ 76-2248 ♦ 713-443-0877
Manager Corporate Aviation: David L. Pease
Transportation Rep./Contract Flight Ops.: William W. Stiles
Transportation Rep./Contract Flight Ops.: W.W. Diamond
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L1, 1-206B

Shell Offshore, Inc.
One Shell Square
P.O. Box 61933
New Orleans, LA 70161
☎ 504-588-4591 ■ 3712775 ♦ 504-588-7715
Manager Aviation Services: Jerry E. Whitman
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: See Shell Oil in Houston, Texas for fleet information.

Siller Brothers, Inc.
Aviation Division
P.O. Box 1585
Yuba City, CA 95991
☎ 916-674-9460
President: Andy Siller
Operations Manager: Neal Siller
Operations: Construction, Exploration, External cargo, Forestry/general, government contracting, Logging
Helicopters: 1-206B, 1-500D, 2-S64E, 2-S61N, 4-SL12, 1-SL47

SilverStar Aviation, Inc.
P.O. Box 1110
Addison, TX 75001-1110
☎ 214-233-6464 ■ 511014 ♦ 214-233-7224
President: Thomas M. Ramirez
Director of Technical Services: Allen Dales
Director of Operations: Lloyd Heckmann
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 3-S76A, 2-B212, 3-B412, 1-350D, 26-206L, 21-206B,

Simplex Time Recorder Co.
Simplex Plaza
Gardner, MA 01441
☎ 617-632-0451
Chief Pilot: William Sneed
Pilot: Arthur Godjikian
Pilot: Ken Gerken
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-109A

Snowy Butte Aviation, Inc.
3660 Brophy Road
Eagle Point, OR 97524
☎ 503-826-1500
President: Georges C. St. Lauren
Chief Pilot: Kenneth B. Lewis
Operations: Air taxi/charter (US part 135), Corporate/part 91 (not for hire), Executive transport, Exploration, External cargo, Forestry/general, Herding/stock & wildlife, Photography
Helicopters: 1-350D, 1-500E,

Thomas G. Somermeier, Jr.
9599 Sunset Boulevard
Beverly Hills, CA 90210
☎ 213-276-8672
Owner: T.G. Somermeier, Jr.
Operations: Pilot training school, Private owner
Helicopters: 1-300C

Sonoma County Sheriff's Dept.
Helicopter/SAR Bureau
600 Administrative Drive
Santa Rosa, CA 95401
☎ 707-527-9595
Deputy Observer: John Lynde
Pilot: Tom McConnel
Pilot: Dave Boyce

Operations: EMS/air ambulance, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 1-206B

South Carolina Aeronautics Commission
Drawer 1987
Columbia, SC 29202
☎ 803-734-1700
Director: John Hamilton
Assistant to Director: Alan Alexander
Maintenance Supervisor: Rex Dula
Safety Pilot: Walter Johnson
Operations: Executive transport, Government contracting, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 1-206L, 1-204B

South Carolina Pipeline Corp.
P.O. Box 6317
Columbia, SC 29260
☎ 803-788-3220
President/CEO: Max Earwood
Vice President/Operations: B.J. MacInnis
Manager of Aviation R/W: James T. Breznay
Operations: Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable)
Helicopters: 1-206L3

South Sea Helicopters, Inc.
P.O. Box 1445
Lihue, Kauai, HI 96766
☎ 808-245-7781 ■ 6502528087
President: Paul D. Asmus
Vice President: Geraldine Asmus
Operations Manager: JoAnn Hamilton
Chief Pilot: Dolph Todd
Operations: Air taxi/charter (US part 135), Executive transport, External cargo, Forestry, general, Government contracting, Photography, Sightseeing
Helicopters: 2-206B

South Texas Helicopters
111 Soledad - Suite 1700
San Antonio, TX 78205
☎ 512-824-3316
President/CEO: Charles Martin Wender
Director of Operations/Chief Pilot:
Ed Hamilton
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Private owners, Sightseeing, Traffic surveillance
Helicopters: 1-350D

Southern California Edison Co.
7000 Merrill Avenue
Chino Airport - Box 33
Chino, CA 91710
☎ 714-597-1881
Director of Aircraft Operations:
Dale F. Barringer
Chief Pilot: Robert D. Cloud
Chief of Maintenance: Gorden Hodges
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Exploration, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: 1-500C, 2-500D, 1-500E, 1-B222, 2-350D

St. Louis Helicopter Airways Inc.
P.O. Box 809
St. Louis, MO 63006-0809
☎ 314-532-1177
President: John R. Murphy
V.P. Marketing/Sales: Larry Corbin
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Photography, Pollution detection/monitoring, Repair station (FAA certified), Traffic surveillance
Helicopters: 4-S58A, 6-206L, 1-B105, 1-350D, 1-109A

Starship Aviation
P.O. Box 271079
Houston, TX 77277-1079
☎ 713-663-4560
Owner: Jesse C. Miller
Operations: Air carrier, Air taxi/charter (US part 135), Electronic news gathering, Photography, Traffic surveillance
Helicopters: 1-350B

State of New York Aviation
Albany County Airport
Albany, NY 12211
☎ 518-457-1200
Director of Aviation: Vincent E. O'Brien
Operations: EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Government agency (not for hire), Pollution detection/monitoring
Helicopters: 1-204B, 1-B212, 1-S76A

Sterling Helicopter, Inc.
Pier 36 South
Delaware Avenue & Catherine St.
Philadelphia, PA 19147
☎ 215-271-2510 ■ 323224
President: Jack M. Brown
Vice-President of Operations:
John P. D'Innocenzi
Chief Pilot: Scott Hibbs
Director of Maintenance: Philip C. Bidden
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-300C, 2-206B3, 1-206L, 1-350B

Sterner Aero AB
P.O. Box 8302
Borlange, S-781 08, Sweden
☎ 243-333-20 ■ 74033
President: Bo Sterner
Vice President: Goran Edgren
Technical Manager: Claes Pettersson
Chief Pilot: Anders Hagberg
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Logging, Mechanic training school, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 6-300C, 3-205A, 3-350B

Summit Helicopters, Inc.
P.O. Box 38
Cloverdale, VA 24077
☎ 703-992-5500
President: Carl N. Milko
Vice President of Operations:
James C. Carlton
Vice President of Marketing/Sales:
Bill McAlister
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-206B, 4-12ET

Sun Company, Inc.
4875 South Island Avenue
Philadelphia, PA 19153
☎ 215-293-6586 ■ 845-259
President/CEO: Robert McClements
Director of Corporate Aviation:
Richard Salzarulo
Helicopter Operations: Pete Sweeney
Operations: Executive transport
Helicopters: 1-B412

Sunrise Helicopters, Inc.
6120 South Lindbergh Street
Stockton, CA 95206
☎ 209-982-1622
President: David L. Heath
Operations: Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing
Helicopters: 1-206B3, 1-R22

Swiss Air-Rescue (REGA)
Mainaustrasse 21
Zurich, 8008, Switzerland
☎ 01-385-8585 ■ 815815 ◆ 01-385-83-15
Chief Pilot: Guido Hirni
Operations: EMS/air ambulance, Law enforcement (not for hire), Repair station (FAA certified)
Helicopters: 11-319B, 3-B105

Tamalpais Helicopters Inc.
92 San Marin Drive
Novato, CA 94947
☎ 415-897-8575
President: William G. Faust
Operations: Air taxi/charter (US part 135), Executive transport
Helicopters: 1-206B

Tampa Helicopters Inc.
P.O. Box 203
Oldsmar, FL 34677
☎ 813-855-3290
Chairman/Chief Executive Officer:
Brian L. Leyden
President/Chief Pilot: Richard P. Naylor

Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-350D

Temsco Helicopters, Inc.
P.O. Box 5057
Ketchikan, AK 99901
☎ 907-225-5141 ■ 099-55204
President: Kenneth C. Eichner
Operations Manager: Charles W. Gale
Chief Pilot: Steve Brown
Chief of Maintenance: William Hornbaker
Manager: Bob Engelbrecht
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing
Helicopters: 2-B212, 4-350B, 22-500D, 1-B204, 2-206B3

Tenneco, Inc.
16951 JFK Boulevard
Houston, TX 77032
☎ 713-757-8107 ■ 792-839
Manager, Rotorwing Flight Operations:
F.L. Clough
Operations: Corporate (US part 91, not for hire), Offshore, Patrol (power, pipeline, buried cable)
Helicopters: 3-206B, 12-B105, 1-350B

Texas Starship Enterprises
1545 Stone Road
Wylie, TX 75098
☎ 214-442-1831
President: David Walden
Director of Operations: Sherry Walden
Chief Pilot: Martin Plowman
Operations: Air taxi/charter (US part 135)
Helicopters: 1-206B

Textron, Inc.
Textron Aircraft Department
T.F. Green Airport
566 Airport Road
Warwick, RI 02886
☎ 401-457-2338
President & CEO: Beverly F. Dolan
Aircraft Department Manager:
Gerard Y. Archambault
Chief Pilot: Michael E. Chagnon
Operations: Executive transport, Private owners
Helicopters: 1-B222, 1-206L

Thompson & Green Machinery Company, Inc.
1245 Firestone Boulevard
Lavergne, TN 37086
☎ 615-256-2424
Chief Pilot: Gregory A. Simpson
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire)
Helicopters: 1-500D

Thomson Industries, Inc.
Channel Drive
Port Washington, NY 11050
☎ 516-883-8000 ■ PTWN 6852347
President: John B. Thomson, Jr.
Manager, Flight Department: Richard L. Peck
Captain, Flight Department: Keith J. Fritz
Director of Maintenance: Robert Petty
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A, 1-1100

Tiller Helicopter Service Inc.
Route 4, Box 300A
Alice, TX 78332
☎ 512-664-6453
President: William J. Tiller
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 3-47G4, 2-47G5, 2-SL47, 1-WASP

Trans-Alaska Helicopters, Inc.
819 Orca Street
Anchorage, AK 99501
☎ 907-274-7762 ■ 25236
President: Richard C. Sweezey
Vice President: Don M. Ward
Chief Pilot: Ed Gunter
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing ***Helicopters:*** 6-206B, 1-206L, 1-205A

TransCanada Pipelines
Hangar 7-A - 2450 Derry Road E.
Lester B. Pearson Int'l Airport
Mississauga, ON, L5S 1B2, Canada
☎ 416-677-3422 ■ 06-968-553
President: G.J. (Gerald) Maier
Aviation Manager:
G.M. (Gregory) Montgomery
Chief Pilot (Helicopters):
D.F. (Donald) MacDonald
Helicopter Maintenance Supervisor:
G.M. (George) Gregg
Operations: Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable), Photography
Helicopters: 5-206B

Transco Energy Company
P.O. Box 60974
Houston, TX 77205
☎ 713-821-1004
Chairman of the Board: W.J. Bowen
Director of Aviation: Von A. Campbell
Manager, Helicopter Operations:
Bennie J. Shields
Maintenance Manager: Bobby J. Richey
Operations: Corporate (US part 91, not for hire), Offshore
Helicopters: 20-355F1

TransWestern Helicopters, Inc.
Scappoose Industrial Air Park
P.O. Box R
Scappoose, OR 97056
☎ 503-226-4731 ■ 151405 ♦ 503-543-5296
President: Elizabeth K. Johnson
General Manager: John C. Helm
Parts Manager: Steve Lippert
Chief Pilot: Robert J. Edwards
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing
Helicopters: 4-206B, 1-500D

The Travelers Corporation
1 Tower Square
Hartford, CT 06183-7070
☎ 203-277-3693 ■ 643841
Director/Administrative Services:
Peter P. Dykas
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76

Tri-County Helicopters
Box 187, 341 King Street
Myerstown, PA 17067
☎ 717-866-5795 ■ 842545 ♦ 717-866-4654
Owner: Richard L. Miller
Chief Pilot: Jerry Ehrhart
General Manager: Karen McKnight
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Pilot training school, Private owners, Sightseeing
Helicopters: 1-F28C, 2-206B

Triad Helicopters, Inc.
Hangar 14
Smith Reynolds Airport
Winston-Salem, NC 27105
☎ 919-767-4057
President: Curtis H. Blackwell
Director of Operations: Thomas Hatcher
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Photography
Helicopters: 3-206B, 1-206L

Tucson Police Department
Air Support Unit
6702 South Plumer Avenue
Tucson, AZ 85706
☎ 602-791-4142
Supervisor - Air Support Unit: Doug Russell
Training Officer: Tim Clark
Safety Officer: Scott Erickson
Operations: Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 2-206B

Tulsa Security, Inc.
P.O. Box 4158
Tulsa, OK 74159

☎ 918-584-2431
President/CEO: Judy A. Boswell
Special Services: Larry Gass
Maintenance: D.L. Houland
Operations: Corporate (US part 91, not for hire), Executive transport, Law enforcement (not for hire), Photography
Helicopters: **2**-206B

Ty-Tua Inc., Aviation Services
Subsidary of Smith Industries
8402 Nelms
Suite 209
Houston, TX 77061
☎ 713-644-1081
Chairman of the Board: Tyson Smith
President/General Manager: John L. Pittman
Chief Pilot: Gary Loughman
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: **1**-206L, **1**-206B

U.S. Jet Aviation, Inc.
General Aviation Terminal
Washington National Airport
Washington, DC 20001-4903
☎ 703-892-6200 ■ 901854 ♦ 703-521-6012
President: William J. McKenna, Jr.
Vice President: Troy L. Mashburn
Director Helicopter Operations:
James L. Stotler
Director of Maintenance: Camoren Davis
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Law enforcement (for hire), Photography, Repair station (FAA certified), Sightseeing
Helicopters: **7**-BK117

U.T. LIFESTAR, Aeromedical
Services-University of Tennessee
Memorial Research Ctr./Hospital
Drawer 81, 1924 Alcoa Highway
Knoxville, TN 37920
☎ 615-544-9112
Director, Aeromedical Services:
Robert F. Lash
Chief Pilot: Dan E. Norman
Operations: EMS/air ambulance
Helicopters: **1**-B222

United Technologies Corporation
Corporate Aircraft Department
Rentschler Airport
East Hartford, CT 06108
☎ 203-565-3596 ■ 966478 ♦ 203-565-4413
Director of Aircraft Operations:
Robert L. Smith
Chief Pilot/Helicopters: James A. Church
Chief of Maintenance: Robert C. Wainman
Maintenance Manager: Reinhard E. Bauer
Operations: Corporate (US part 91, not for hire)
Helicopters: **1**-S76A, **1**-S76B

United Telephone Company
of the Northwest
601 State Street
Hood River, OR 97031
☎ 503-387-9374
Chief Pilot/Mechanic: Ronald W. Wilkins
Operations: Corporate (US pt 91, not for hire)
Helicopters: **1**-206L1

University Air Care
University Hospital
234 Goodman Street
Cincinnati, OH 45267-0736
☎ 513-872-7522
Administrator: Carl H. Iseman
Administrative Director: Dudley G. Smith
Chief Pilot: Richard Hassman
Medical Director: Daniel L. Storer, M.D.
Operations: EMS/air ambulance
Helicopters: **1**-BK117

University of North Dakota
Center for Aerospace Sciences
P.O. Box 8216
University Station
Grand Forks, ND 58202-8216
☎ 701-777-2791 ■ 9106738382
Dean, CAS: John D. Odegard
Director Flight Operations: Dana Siewert
Chief Pilot Helicopter Programs:
Ronald DePue
Ass't Chief Pilot/Helicopter Operations:
Alan Ludwig
Operations: Corporate (US part 91, not for hire), Executive transport, Government agency (not for hire), Pilot training school
Helicopters: **3**-300C, **2**-500E

University of South Alabama
Medical Center/"Southflite USA"
2451 Fillingim Street
Mobile, AL 36617
☎ 205-471-7100
Aeromedical Services/Department Head:
Bud Gibson
Chief Pilot: Ray Nicholas
Program Coordinator: Bill Glisson
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Offshore
Helicopters: **1**-206L1, **1**-B222A

USX Corporation
Aircraft Division
Greater Pittsburgh Int'l Airport
P.O. Box 12345
Pittsburgh, PA 15231-0345
☎ 412-433-4833
Manager Flight Operations/Flight Training:
Jeffrey A. Geary
Operations: Corporate (US pt 91, not for hire)
Helicopters: **1**-B222

Vancouver Island Helicopters Ltd.
No. 1-9600 Canora Road
Sidney, BC, V8L 4R1, Canada
☎ 604-656-3987 ♦ 604-655-1180
General Manager: Barry J. Hewko
Marketing Manager: Ken Norie
Chief Engineer: Emil Weinreich
Chief Pilot: Bob Reimer
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Pilot training school, Repair station (FAA certified)
Helicopters: **12**-206B, **3**-500D, **2**-204B, **1**-47G2

Vernon Helicopters Ltd.
Site #2, Comp.1, #1
Rural Route 4
Vernon, BC, V1T 6L7, Canada
☎ 604-542-6000
President: Richard K. Biggs
Operations: Air carrier, Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable)
Helicopters: **2**-206B

Verticare
P.O. Box 5127
Salinas, CA 93915 5127
☎ 408-422-0685 ■ 9103802569
President: James T. Cheatham
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: **1**-UH1B, **2**-500D, **2**-UH12

View Top Corporation
Westchester County Airport
White Plains, NY 10604
☎ 914-428-8780
Chief Helicopter Pilot: W. Ward Gill
Chief of Maintenance: Joe Moore
Operations: Corporate (US pt 91, not for hire)
Helicopters: **1**-S76A

Viking Helicopters, Ltd.
400 Cite Des Jeunes Boulevard
Saint Clet, PQ, J0P 1S0, Canada
☎ 514-455-5687 ■ 05-25196 ♦ 514-456-3825
President: Jean-Paul Provost
Senior Vice-President: J. Georges Delaney
Vice President Maintenance: Guy Hallifax
Chief Pilot: Jean Pierre Boudou
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Patrol (power, pipeline, buried cable), Photography, Skiing
Helicopters: **20**-500D, **3**-B212, **16**-206B, **4**-206L, **14**-350D, **6**-350B

Villa Banfi
21 Banfi Plaza
Farmingdale, NY 11735
☎ 516-292-3500 ■ 127379
Chairman of the Board: John Mariani
President: Harry Mariani
Pilot: Walton Marshall
Operations: Corporate (US pt 91, not for hire)
Helicopters: **1**-350B

VOTEC
Av. Alvorada 2541
Barra da Tijuca
Rio de Janeiro, 22700, Brazil
☎ 21-325-9044 ■ 21-23999 ♦ 21-325-6516
Chief Executive Officer: Alexandre Silva
Marketing Director: Paulo Macedo
Operations Manager: Celio Cunha
Operations: Air taxi/charter (US part 135), EMS/air ambulance, External cargo, Offshore
Helicopters: 6-S61N, 3-S58T, 7-S76A

Wackenhut Services, Inc.
P.O. Box W
Aiken, SC 29802
☎ 803-557-6617
Senior Vice President & General Manager: Michael M. Cosgrove
Director of Special Operations: Lloyd Foster
Manager of Flight Operations: Ernest T. Tussey
Chief Pilot: Robert R. Green
Operations: Law enforcement (not for hire)
Helicopters: 2-BK117

Warner Lambert Company
Flight Operations
Morristown Municipal Airport
Morris Plains, NJ 07960
☎ 201-540-4901
Director Aviation & Travel Services: Edward Chu
Chief Pilot: Roger B. Loomis
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76B

Wayfarer Ketch Corporation
Hangar G
Westchester County Airport
White Plains, NY 10604
☎ 914-949-4424 ■ 703130
Vice President: Malcolm R. Doak
Operations Manager: James A. Palmer
Chief Pilot, Rotary Wing: Ralph T. Williams
Director of Maintenance: Edward C. Abbott
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire)
Helicopters: 2-B105, 1-S76A

Western Helicopters, Inc.
P.O. Box 579
Rialto, CA 92376
☎ 714-829-1051 ■ 676421 ♦ 714-829-4904
President: Clair T. Merryweather
Director of Operations: Dorcey A. Wingo
Chief Pilot: Peter Gillies
Director of Maintenance: William T. Dvorak
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206B, 1-500D, 1-300B, 1-500C, 1-300C, 1-206L, 1-S58D

Weyerhaeuser Company
Corporate Aircraft
Tacoma, WA 98477
☎ 206-241-2858 ■ 9104412615
Manager Corporate Aircraft: W.K. Smith
Chief Helicopter Pilot: John R. Wagner
Chief Inspector: Arden Davis
Manager Mid South: G.M. MacNamara
Operations: Agriculture, Air taxi/charter (US part 135), Executive transport, External cargo, Fire control/support, Repair station (FAA certified)
Helicopters: 3-B212, 7-206B

Whirlybird Inc.
9475 Deereco Road
Timonium, MD 21093
☎ 301-561-5870
President/CEO: Thomas Obrecht
Chief Pilot: Jesse G. Hadaway, Jr.
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Photography, Pilot training school, Sightseeing
Helicopters: 1-206L1

Frank L. Whitcomb
d/b/a Drewsville Airways
P.O. Box 1000
Walpole, NH 03608
☎ 603-445-5555
Owner: Frank L. Whitcomb
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206B

White Mountain Airways
P.O. Box 619
North Conway, NH 03860
☎ 603-356-2930
President: Wylie L. Apte
Operations: Air taxi/charter (US part 135), Executive transport, Forestry, general, Government contracting, Law enforcement (not for hire), Photography, Private owners, Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206B

WIKING Helicopter Service GmbH
Postfach 30 55 70
D-200 Hamburg, 36, West Germany
☎ 44-19-13-50 ■ 21700840 ♦ 44-19-13-51
Managing Director: Rolf Schneider
Operations Manager: Udo Jahn
Chief Pilot: Josep Blochl
Technical Manager: Horst Voigt
Operations: Agriculture, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing
Helicopters: 1-B212, 1-206L, 1-S61N, 1-S76A, 1-206B

Wilsey, Bennett Company
P.O. Box 3532
San Francisco, CA 94119
☎ 415-391-4150
Chairman: M.W. Lilsey
Executive Committee Chairman: A.S. Lilsey
Chief Pilot: Clifford D. Mooney
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-500D

WNEP-TV, a New York Times Co.
Wilkes-Barre/Scranton
International Airport
Avoca, PA 18641
☎ 717-826-1616
President, Broadcast Division: Frank Roberts
Executive V.P./General Manager: Elden Hale
Controller: Ronald Kupers
Pilot: Jack Ruland
Operations: Electronic news gathering
Helicopters: 1-206B

WOR Radio
1440 Broadway
New York, NY 10018
☎ 212-642-2000
Chief Pilot: George J. Meade
Operations: Traffic surveillance
Helicopters: 1-206B

WSVN-TV Channel 7
1401 79th Street Causeway
Miami, FL 33141
☎ 305-751-6692
Chief Executive Officer: Robert Leider
Chief Pilot/Reporter: Maurice Johnson
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Traffic surveillance
Helicopters: 1-350B

Yellowhead Helicopters Ltd.
P.O. Box 18
Valemount, BC, V0E 2Z0, Canada
☎ 604-566-4401 ♦ 604-566-4333
President: Garry Forman
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Photography, Sightseeing
Helicopters: 3-206B

Yonker's Contracting Company
969 Midland Avenue
Box 39
Yonkers, NY 10704
☎ 914-965-1500
President: Carl E. Petrillo
Chief Pilot: Nicholas D. D'Alessio
Operations: Construction, Executive transport
Helicopters: 1-B222

YX Helicopter Service
Route 5 - Box 377AA
San Antonio, TX 78221
☎ 512-624-3128
Owner: John C. Gayle, III
Operations: Agriculture, Construction, Executive transport, Exploration, Herding/stock & wildlife, Law enforcement (for hire), Photography, Pilot training school, Sightseeing
Helicopters: 1-500D

Zodiac Helicopters
P.O. Box 279
Dumfries, VA 22026
☎ 703-690-3816
Executive Vice President: L.J. Sallee
Operations: Air taxi/charter (US part 135), Government contracting
Helicopters: 1-269A, S 58T

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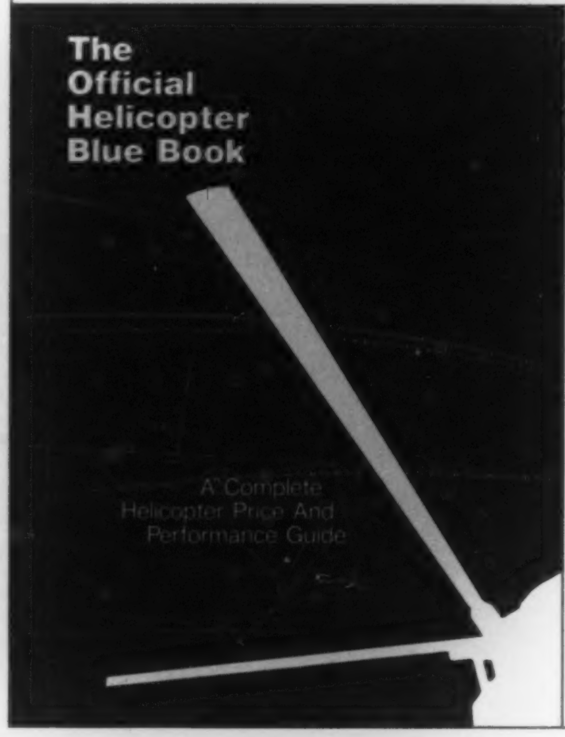
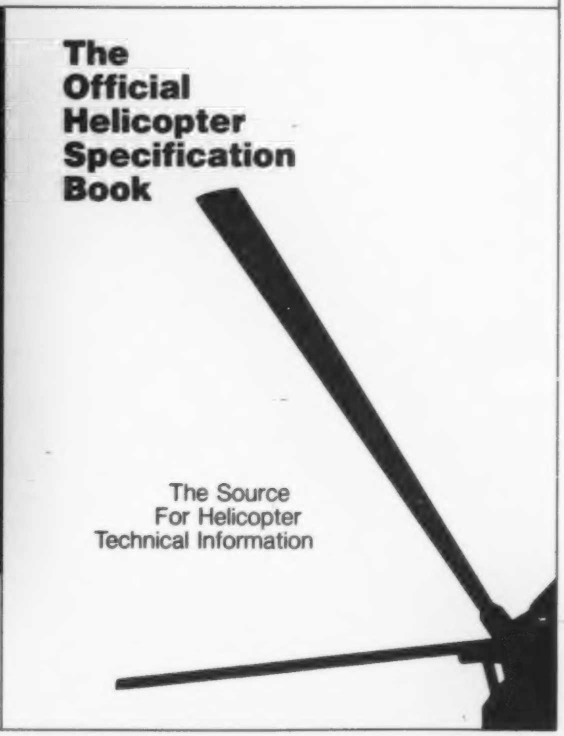
Telephone: (305) 251-7200 Fax: (305) 251-2300
Telex: 52-5110 APS MIA

International Helicopter Financial Services, Inc.
Publishers of:



The Official Helicopter Blue Book

A Complete Helicopter Price And Performance Guide



The Official Helicopter Specification Book

The Source For Helicopter Technical Information

Suite 205 • 4256 N. Arlington Heights Road • Arlington Heights, IL 60004-1372
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Helicopter
Association
International

JOIN THE WORLD OF HAI...

Since 1948, the Helicopter Association International has brought together the leaders of the civil helicopter industry. Our membership includes helicopter operators and owners, users, manufacturers and suppliers, service organizations, other groups with a common interest in helicopters and interested individuals. Members are classified according to their role in the industry.

Listed below are our membership classifications. Where do you belong?

REGULAR MEMBERS

Regular (voting) members are organizations which operate civil helicopters as a principal business, in private use as a business tool or in public service. HAI has not had a dues increase since 1982. And no such increase is contemplated. In fact, last year we actually reduced dues for one and two ship operators.

Annual dues for Regular Membership is based upon the number of helicopters operated.

Commercial-Corporate/Private	
1	$250
2-5	$400
6-19	$600
20-39	$1,000
40 or more	$1,400

Public Service	
1	$250
2-4	$300
5-1	$450
15 or more	$500

ASSOCIATE MEMBERS

Associate members provide certificated products, supplies or services to the civil helicopter industry and/or are lessors of helicopters rather than an operator.

Annual dues for Associate Membership is based upon the gross revenue of the company or division applying for membership.

Associate A - A prime airframe, rotor, or engine manufacturer directly engaged in the manufacture or development of helicopters, rotors, helicopter equipment for helicopters, and offering a certified product to the industry.

A-1 —	$100M or more	$10,000	A-2 —	$50M-$100M	$7,000
A-3 —	$15M-$50M	$6,000	A-4 —	$15M or below	$4,500

Associate B - Manufacturers and suppliers of products and services other than as applicable to Associate A.

B-6 —	$5M or more	$1,000	B-7 —	$1M-$5M	$800
B-8 —	$251K- $1M	$600	B-9 —	$250K or less	$225

SUSTAINING MEMBERS

A Sustaining Member is any individual interested in following the events of the civil helicopter industry, or who is an employee of an HAI member company. Officers, directors or employees of firms that qualify for Regular or Associate membership, but are not HAI members, are not eligible.

Annual dues for Sustaining Members is $50.

STUDENT MEMBERS

A Student Member is any individual interested in following the events of the civil helicopter industry that is a full or part time student in a flight training or A&P school, or a college or university.

Annual dues for Student Members is $30.

AFFILIATE MEMBERS

Affiliate Members are national, regional and international organizations whose purpose and interests are similar to those of HAI. Affiliate Members do not pay dues.

For further information and/or a membership application, please use the response cards provided.

HAI Award Nominations

Please send me an HAI award nomination form.

Name ______________________ Title ______________

Company ______________________________

Address ______________________________

City/State/Zip ______________________ Country ______________

Telephone: ____________ Fax: ____________ Telex: ____________

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Alexandria, VA 22314-9990

HAI Computer Hotline

Please send me information on HAI's Hotline Bulletin Board – a computer-based helicopter industry information system.

Name ______________________ Title ______________

Company ______________________________

Address ______________________________

City/State/Zip ______________________ Country ______________

Telephone: ____________ Fax: ____________ Telex: ____________

Geographic Matrix

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
AUSTRALIA																												
Department of Aviation Aircraft Data Section Canberra, A.C.T. 684589																☆												
Esso Australia Ltd. Sale, Victoria 051-495201					☆		☆		☆	☆	☆	☆									☆		☆		☆			
Jayrow Helicopters Pty. Ltd. Victoria 587-1833			☆			☆					☆	☆		☆	☆							☆	☆					
BRAZIL																												
Lider Taxi Aereo S.A. Belo Horizonte 031-441-9088			☆			☆			☆	☆	☆	☆			☆						☆	☆	☆			☆		
Cruzeiro Taxi Aereo S.A. Rio de Janeiro 021-270-8582			☆								☆	☆									☆							
Helijet Aero Taxi Ltda. Rio de Janeiro 021-224-7282			☆							☆		☆									☆							
VOTEC Rio de Janeiro 021-325-9044			☆						☆			☆									☆							
Pirelli S/A Sao Paulo 220-8011							☆			☆																		
Selecta Aero Taxi Ltda. Sao P[illegible]lo 284-0294			☆	☆				☆		☆		☆	☆	☆	☆			☆				☆	☆	☆		☆		☆
CANADA																												
Mobil Oil Canada, Ltd. Calgary, AB 403-268-7687							☆				☆										☆							
Churchill Falls Labrador Corp. Churchill Falls, LB 709-925-3405							☆		☆	☆		☆	☆									☆						
NOVA an Alberta Corporation Aviation Department Edmonton, AB 403-423-8266							☆																					
Fraser, Inc. Edmundston, NB 506-735-5551							☆			☆				☆														
Horizon Helicopters Inc. Kamloops, BC 604-554-3434	☆		☆			☆			☆		☆	☆	☆	☆	☆							☆						

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Ontario Hydro Mississauga, ON 416-677-1330						☆	☆		☆	☆	☆	☆		☆								☆	☆					
TransCanada Pipelines Mississauga, ON 416-677-3422							☆			☆		☆										☆	☆					
Macmillan Bloedel Ltd. Flight Operations Richmond, BC 604-278-4807							☆																					
Okanagan Helicopters Ltd. Richmond, BC 604-278-5502			☆			☆			☆		☆	☆	☆	☆		☆				☆	☆	☆	☆			☆	☆	
Ranger Helicopters (Canada) Richmond, BC 604-270-4143					☆	☆				☆	☆		☆	☆	☆							☆	☆	☆				
Viking Helicopters, Ltd. Saint Clet, PQ 514-455-5687						☆	☆		☆	☆	☆	☆	☆	☆	☆					☆		☆	☆				☆	
Sealand Helicopters Ltd. Saint Johns, NF 709-576-4911			☆			☆				☆	☆	☆	☆	☆	☆		☆				☆	☆	☆			☆		
Vancouver Island Helicopters Ltd. Sidney, BC 604-656-3987			☆			☆			☆		☆	☆	☆	☆	☆													
Yellowhead Helicopters Ltd. Valemount, BC 604-566-4401			☆						☆		☆	☆	☆	☆	☆		☆						☆			☆		
Finning Tractor & Equipment Company Limited Vancouver, BC 604-872-4444							☆																					
Vernon Helicopters Ltd. Vernon, BC 604-542-6000		☆				☆				☆	☆	☆	☆	☆	☆							☆						
Custom Helicopters Ltd. Winnepeg, MB 204-338-7953	☆		☆			☆					☆	☆	☆	☆	☆		☆					☆	☆					
CHILE																												
Heli-Chile Ltda. Santiago 02-224-3597	☆							☆	☆	☆	☆		☆	☆						☆	☆	☆	☆			☆	☆	
Helicopteros Andes S.A. Santiago 02-227-6354	☆		☆	☆		☆					☆	☆	☆	☆							☆	☆	☆	☆		☆	☆	
Helimares Ltda. Santiago 02-251-4185			☆				☆			☆	☆	☆	☆	☆							☆	☆	☆			☆		

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Servicio Aereo Litoral Ltda. Santiago 02-225-9792	☆		☆						☆	☆		☆		☆							☆	☆				☆	☆	
COLOMBIA																												
Aeroexpreso Bogota Ltda. **Bogota** **211-8100**			☆						☆	☆	☆	☆			☆							☆						☆
Helicopteros Nacionales de Colombia - "HELICOL" S.A. **Bogota** **263-7504**			☆	☆						☆	☆	☆			☆							☆	☆			☆		
Helivalle Ltda. **Bogota** **257-0635**	☆	☆	☆	☆						☆	☆	☆			☆						☆		☆					
EGYPT																												
Petroleum Air Services (PAS) Cairo 609058					☆																							
ENGLAND																												
Shell Aircraft Limited **Hounslow, Middlesex** **01-759-4531**							☆			☆											☆							
Air Hanson Ltd. **Surrey** **0932-57611**			☆	☆						☆		☆			☆			☆					☆					
Bristow Helicopter Group Ltd. **Surrey** **01-668-6352**			☆							☆	☆	☆			☆						☆	☆						
FINLAND																												
Helikopteripalvelu Helsinki 90-372122			☆			☆		☆		☆	☆	☆		☆	☆			☆				☆	☆			☆		
FRANCE																												
Heli Union **Paris** **01-4554-9290**			☆			☆			☆	☆	☆	☆		☆						☆	☆	☆	☆					
GREENLAND																												
Greenlandair, Inc. Godthaab 24488			☆	☆	☆	☆			☆	☆	☆	☆			☆		☆				☆	☆	☆	☆		☆		
GUATEMALA																												
Helicopteros de Guatemala **Guatemala City** **318282**	☆		☆						☆	☆	☆	☆			☆							☆	☆			☆		

Regular

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
INDONESIA																												
Airfast Indonesia P.T. Jakarta 517696			☆			☆				☆	☆	☆			☆					☆	☆	☆				☆		
ATA Asahi Transna Airways P.T. Jakarta 711061			☆							☆	☆			☆						☆	☆		☆					
Derazona Air Service P.T. Jakarta 803427			☆											☆							☆		☆			☆		
Indonesia Air Transport P.T. Jakarta 586601			☆			☆			☆	☆	☆	☆		☆	☆						☆	☆						
Mobil Oil Indonesia, Inc. Jakarta 711211										☆	☆										☆							
National Utility Helicopters Ltd. P.T. Jakarta 4815188			☆			☆			☆	☆	☆	☆		☆	☆					☆	☆	☆	☆			☆		
P.T. Gatari Hutama Air Service Jakarta 803428			☆							☆	☆	☆		☆						☆	☆							
P.T. Pelita Air Service Jakarta 3801230			☆	☆					☆	☆	☆	☆			☆						☆	☆						
IRELAND																												
Shannon Executive Aviation Ltd. **County Clare** **061-61211**		☆	☆	☆	☆		☆			☆												☆	☆					
Irish Helicopters, Ltd. **Dublin** **376473**			☆			☆				☆	☆	☆		☆	☆						☆	☆	☆					
ITALY																												
Elitos Helicopters S.p.A. Florence 55-43961			☆			☆				☆	☆	☆	☆	☆							☆	☆		☆				
JAPAN																												
Aero Asahi Corporation **(Asahi Koyo)** **Tokyo** **03-988-1011**	☆	☆	☆		☆	☆				☆		☆	☆	☆	☆					☆	☆	☆	☆		☆	☆	☆	☆
KENYA																												
Autair Helicopters (EA) Ltd. Nairobi 501658	☆					☆			☆	☆	☆	☆			☆		☆					☆	☆					

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
MALAYSIA																												
Sabah Air Pte Ltd. **Kota Kinabalu** **088-51326**	☆		☆			☆			☆	☆		☆		☆	☆						☆		☆					
Kumpulan Guthrie Sendirian Berhad \ Wisma Guthrie **Kuala Lumpur** **03-2541644**	☆						☆			☆															☆			
Malaysian Helicopter Services Berhad **Selangor** **03-7561177**																					☆							
MEXICO																												
Departamento del Distrito Federal-Servicios Aereos Mexico, D.F. 905-558-2416																☆												
Heliservicio Campeche S.A. de C.V. Mexico, D.F. 905-553-6006		☆								☆	☆	☆									☆		☆					
Petroleos Mexicanos Mexico, D.F. 905-763-5047					☆		☆		☆	☆	☆	☆				☆					☆	☆	☆					
NETHERLANDS																												
KLM Helikopters B.V. **Schiphol East** **20-491339**						☆				☆		☆			☆						☆		☆					
NEW ZEALAND																												
The Helicopter Line Ltd. Dunedin 024-776829	☆		☆								☆		☆	☆			☆				☆		☆			☆	☆	
Lakeland Helicopters Ltd. Taupo 074-84532	☆	☆	☆	☆		☆				☆		☆	☆	☆	☆		☆					☆	☆			☆	☆	
NORWAY																												
Helikopter Service A/S **Lysaker** **02-590560**			☆						☆		☆	☆	☆							☆	☆	☆	☆					
Norwegian Air Ambulance **1441 Drobak** **02-932160**			☆						☆	☆		☆						☆					☆			☆		☆
Lufttransport A/S **Tromsoe** **083-70022**			☆			☆			☆	☆	☆	☆			☆						☆	☆	☆			☆		

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
SINGAPORE																												
Lloyd Helicopters (Pte.) Ltd. Singapore 65-3382123			☆			☆				☆	☆	☆									☆	☆	☆					
SOUTH AFRICA																												
Court Helicopters (Pty) Limited Cape Town 021-934-0560			☆			☆			☆	☆	☆		☆								☆	☆	☆					☆
Heliquip (Pty.) Ltd. Transvaal 011-827-8935	☆	☆	☆							☆	☆	☆					☆			☆		☆	☆	☆				
SPAIN																												
HELIJET, S.A. Zaragoza 76-29-17-11	☆	☆	☆			☆			☆	☆		☆		☆									☆			☆	☆	
SWEDEN																												
Sterner Aero AB Borlange 243-333-20	☆		☆			☆			☆			☆	☆	☆						☆		☆	☆			☆	☆	
Ostermans Aero AB Jarfalla 08-760-27-20			☆		☆	☆						☆			☆						☆		☆			☆		
Board of Civil Aviation Norrkoping 011-192000																☆												
Lapplandsflyg/Lapair AB Umea 90-129050			☆						☆	☆		☆					☆					☆	☆			☆	☆	
SWITZERLAND																												
HELISWISS, Swiss Helicopter Ltd. Belp 31-81-33-11	☆		☆			☆				☆		☆	☆					☆		☆	☆	☆	☆			☆	☆	
Helog Ltd. Helicopter-transports Kussnacht 041-81-48-00	☆		☆						☆	☆		☆	☆	☆				☆		☆			☆					
Swiss Air-Rescue (REGA) Zurich 01-385-8585									☆										☆									
UNITED ARAB EMIRATES																												
Abu Dhabi Aviation Abu Dhabi 722733	☆		☆			☆			☆	☆		☆									☆	☆	☆	☆		☆		
Aerogulf Services Co. (Pvt) Ltd. Dubai 971-245157			☆						☆		☆	☆									☆		☆			☆		

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
WEST GERMANY																												
Motorflug GmbH Baden-Baden 7221-61003-5			☆							☆					☆								☆			☆		
WIKING Helicopter Service GmbH Hamburg 44-19-13-50	☆									☆	☆	☆		☆	☆						☆	☆	☆	☆		☆		
UNITED STATES																												
ALABAMA																												
Carraway Aeromedical Services Incorporated Birmingham 205-226-6914			☆						☆	☆																		
University of South Alabama Medical Center/"Southflite USA" Mobile 205-471-7100			☆						☆												☆							
ALASKA																												
Alaska Helicopters, Inc. Anchorage 907-243-3404			☆			☆					☆	☆	☆		☆					☆	☆	☆						
ERA Helicopters, Inc. Anchorage 907-248-4422		☆	☆			☆				☆	☆	☆	☆								☆							
Trans-Alaska Helicopters, Inc. Anchorage 907-274-7762			☆			☆					☆	☆	☆	☆	☆							☆				☆		
Heli-Lift, Inc. Fairbanks 907-452-1197			☆							☆	☆	☆	☆		☆						☆	☆				☆		
Kenai Air Alaska, Inc. Kenai 907-283-7561			☆						☆	☆	☆	☆	☆		☆		☆				☆							
Temsco Helicopters, Inc. Ketchikan 907-225-5141			☆			☆	☆		☆	☆	☆	☆	☆	☆	☆					☆	☆	☆				☆		
Aurora Helicopters, Inc. Willow 907-495-6306	☆		☆								☆	☆			☆			☆				☆				☆		
ARIZONA																												
Boulais Farms Glendale 602-843-1220							☆																					
Grand Canyon Helicopters Grand Canyon 602-638-2410			☆		☆											☆							☆			☆	☆	

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Falcon Wings, Inc. **Mesa** **602-981-3381**	☆		☆			☆				☆	☆	☆	☆	☆	☆		☆	☆				☆	☆			☆		
American Continental Corp. **Phoenix** **602-267-9869**							☆																					
Arizona Department of Public Safety - Aviation Division **Phoenix** **602-262-8411**									☆										☆									
Knoell Bros. Construction, Inc. **Phoenix** **602-275-7429**			☆				☆			☆																		
KPNX Television, Inc. **Phoenix** **602-257-1212**								☆																				☆
Salt River Project **Phoenix** **602-236-2479**							☆			☆		☆										☆						
Air Services International, Inc. **Scottsdale** **602-948-2150**			☆	☆		☆		☆	☆	☆	☆	☆	☆	☆	☆		☆				☆	☆	☆			☆		
Tucson Police Department **Air Support Unit** **Tucson** **602-791-4142**																☆			☆									
ARKANSAS																												
Central Flying Service, Inc. Little Rock 501-375-3245			☆					☆	☆	☆												☆	☆					
CALIFORNIA																												
Northrop Corporation **Electro-Mechanical Division** **Anaheim** **714-441-4027**															☆	☆												
C.R.I. Helicopters **Apple Valley** **619-247-5845**	☆		☆			☆			☆		☆	☆	☆	☆	☆		☆				☆	☆	☆				☆	
K.W. Emerson Inc. **Arnold** **209-795-1045**							☆																					
Corwin D. Denney **Beverly Hills** **213-275-4589**																									☆			
Thomas G. Somermeier, Jr. **Beverly Hills** **213-276-8672**																									☆			

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
County of Ventura **Public Safety Aviation Unit** **Camarillo** **805-484-3601**									☆				☆			☆		☆										
Monterey Peninsula Helicopters **Carmel Valley** **408-659-3898**			☆			☆				☆		☆	☆	☆	☆			☆					☆			☆		
Southern California Edison Co. **Chino** **714-597-1881**						☆	☆			☆	☆	☆									☆	☆	☆	☆				
Rogers Helicopters, Inc. **Clovis** **209-299-4903**			☆			☆			☆	☆	☆	☆	☆		☆						☆							
Crane Helicopter Services, Inc. **Fremont** **415-657-3001**			☆			☆					☆	☆	☆	☆	☆							☆	☆					
Rancon Realty Fund IV & V **Irvine** **714-833-3200**						☆	☆			☆															☆			
Arctic Air Service, Inc. **Lompoc** **805-735-3717**			☆			☆			☆		☆	☆			☆						☆	☆						
Associated Helicopter Services, Inc. **Long Beach** **213-420-2128**	☆		☆	☆		☆		☆	☆	☆	☆	☆	☆	☆	☆						☆	☆	☆			☆	☆	☆
Island Express, Inc. **Long Beach** **213-491-5550**			☆							☆													☆			☆		
Security Pacific National Bank **Helicopter Section** **Long Beach** **213-496-2430**							☆																					
California Federal Savings **Los Angeles** **213-932-4661**							☆																					
EJ Helicopters, Inc. **(Electronic Journalism)** **Los Angeles** **213-254-9444**			☆					☆																				
Helitac Aviation, Inc. **Los Angeles** **213-483-6898**			☆	☆	☆			☆		☆													☆					
Commodore Helicopters **at Fisherman's Wharf** **Mill Valley** **415-332-4482**		☆	☆					☆		☆					☆							☆	☆	☆		☆		☆
NASA **Moffett Field** **415-694-5066**																☆												

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Cypress Helicopters Ltd. Monterey 408-372-1191	★		★			★				★	★	★	★	★	★			★			★	★	★			★		★
Tamalpais Helicopters Inc. Novato 415-897-8575			★							★																		
Helicopters Unlimited, Inc. Oakland 415-632-9422			★	★		★			★	★		★			★						★							
KaiserAir, Inc. Oakland 415-569-9622							★																					
County of Los Angeles Fire Dept. Air Operations Pacoima 318-890-5755													★			★												
Pasadena Police Department Helicopter Section Pasadena 818-405-4625																★			★				★					
Brian Chuchua's Jeep, Inc. Placentia 714-879-5337							★			★													★		★			
Louisiana-Pacific Corp. Red Bluff 916-527-1371							★			★				★														
Redding Air Service, Inc. Redding 916-221-2851			★										★	★	★		★					★						
Western Helicopters, Inc. Rialto 714-829-1051			★			★			★	★	★	★	★	★	★		★	★				★	★			★	★	★
California Department of Forestry Sacramento 916-324-9689													★	★														
KCRA TV - Kelly Broadcasting Sacramento 916-444-7300							★	★															★					★
Verticare Salinas 408-422-0685	★	★	★			★					★	★	★	★			★					★	★			★	★	
San Diego Helicopter Service, Inc. San Diego 619-423-1717		★					★									★			★	★	★	★						★
Wilsey, Bennett Company San Francisco 415-391-4150							★			★																		

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Aris Helicopters, Ltd. San Jose 408-998-3266			★			★				★	★	★	★									★	★					
Aero-Executive Helicopters San Luis Obispo 805-544-3990			★			★		★	★	★		★	★	★	★			★			★	★	★			★	★	★
Sonoma County Sheriff's Dept. Helicopter/SAR Bureau Santa Rosa 707-527-9595									★							★			★									
The Bob Bondurant School of High Performance Driving Sonoma 707-938-4741							★	★															★		★	★		★
Alexair Torrance 213-326-3338			★	★					★	★								★					★			★		★
Helipad Aviation, Inc. Dimensions Plus Helicopters Ukiah 707-468-5510			★			★	★	★	★	★	★	★	★	★	★		★	★			★	★	★			★	★	
Briles Wing & Helicopter, Inc. Van Nuys 818-994-1445			★	★		★		★	★	★	★	★	★	★	★		★			★	★	★	★	★		★	★	★
Hughes Aircraft Company Van Nuys 818-908-5201							★			★																		
Siller Bros. Inc. Aviation Division Yuba City 916-674-9460						★					★	★		★	★					★								
COLORADO																												
Jet Aviation Helicopter Services, Inc. Denver 303-398-3933		☆				☆				☆		☆	☆							☆			☆				☆	
Public Service Co. of Colorado Denver 303-329-1032							☆					☆										☆						
Air Methods Corporation Englewood 303-790-0587			☆						☆	☆																		
Mountain Bell Flight Operations Englewood 303-790-8228						☆	☆			☆		☆										☆						
Ptarmigan Helicopters, Inc. Evergreen 303-674-2487	☆		☆			☆				☆		☆	☆	☆	☆							☆	☆					

Regular

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Geo-Seis Helicopters, Inc. Fort Collins 303-484-3600			☆			☆			☆		☆	☆	☆	☆	☆		☆	☆		☆	☆	☆	☆	☆			☆	
Redstone Aero Services, Inc. Grand Junction 303-242-4923			☆									☆		☆	☆			☆								☆		
Ag Air Inc. Johnstown 303-776-8944	☆											☆																
CONNECTICUT																												
United Technologies Corporation Corporate Aircraft Department East Hartford 203-565-3596							☆																					
Executive Transport Inc. d/b/a Cityhop Hartford 1-800CITYHOP			☆		☆		☆			☆													☆			☆		
Hartford Helicopters, Inc. Hartford 203-522-1113			☆				☆		☆	☆													☆			☆		
The Travelers Corporation Hartford 203-277-3693							☆																					
Coastal Air Management Mystic 203-536-4971							☆																					
The Klewin Companies, Inc. d/b/a Klewin Air Services, Inc. Norwich 203-889-4080						☆	☆			☆																		
Robert B. Milligan, Jr. Southport 203-254-2200																									☆			
Mobil Oil Corporation Stamford 203-328-7117							☆																					
AETNA Life & Casualty Windsor Locks 203-627-3060							☆																					
CIGNA Corporation Windsor Locks 203-726-4459							☆			☆																		
DISTRICT OF COLUMBIA																												
Gannett Co., Inc. Washington 703-661-8992							☆	☆															☆					☆

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
U.S. Jet Aviation, Inc. Washington 703-892-6200			☆					☆	☆	☆					☆			☆					☆			☆		
FLORIDA																												
William K. Carpenter Boca Raton 305-368-0629																									☆			
Knight Aviation Services, Inc. Boca Raton 305-734-4199		☆	☆				☆	☆		☆	☆			☆									☆			☆		
Crescent Airways, Inc. Hollywood 305-987-1900	☆	☆	☆			☆		☆	☆	☆	☆	☆	☆	☆	☆						☆	☆	☆	☆				
Helicopter Services of Jacksonville, Inc. Jacksonville 904-641-7398			☆					☆		☆					☆							☆	☆			☆		
Africair, Inc. Miami 305-255-6973											☆	☆			☆						☆							
Florida Power & Light Company Miami 305-552-3858							☆																					
Metropolitan Dade County Fire Department Miami 305-233-5000									☆				☆															
WSVN-TV Channel 7 Miami 305-751-6692							☆	☆																				☆
Tampa Helicopters Inc. Oldsmar 813-855-3290			☆			☆			☆	☆	☆	☆										☆	☆			☆		
Miami Helicopter Service, Inc. Opa Locka 305-685-8223			☆					☆		☆	☆		☆	☆	☆							☆	☆			☆		☆
Orlando Helicopter Airways, Inc. Orlando 305-841-3480						☆						☆																
Relair Inc. Palm Beach 305-659-3711							☆																☆					
Florida Division of Forestry Tallahassee 904-488-0959													☆	☆														
Aircoastal Helicopters, Inc. West Palm Beach 305-471-1218			☆					☆	☆	☆													☆					

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
GEORGIA																												
Dooley Helicopters, Inc. Chamblee 404-458-3431			☆					☆		☆		☆	☆	☆								☆	☆					☆
Mid-State/Executive Helicopters, Inc. Duluth 404-564-1901			☆						☆						☆							☆	☆			☆		
HAWAII																												
Maui Helicopters Inc. Kihei 808-879-2622			☆									☆			☆			☆					☆			☆		
South Sea Helicopters, Inc. Lihue, Kauai 808-245-7781			☆							☆		☆		☆	☆								☆			☆		
IDAHO																												
Crew Concepts, Inc. Boise 208-344-4691			☆			☆				☆	☆	☆	☆	☆				☆				☆					☆	
Idaho Helicopters, Inc. Boise 208-344-4361	☆		☆			☆			☆		☆	☆	☆	☆	☆		☆					☆	☆			☆		
American Protective Services Idaho Falls 208-526-8033																☆			☆									
Bird Space Technology Sandpoint 208-263-2549									☆																			
Reeder Flying Service, Inc. Twin Falls 208-733-5920			☆			☆				☆	☆	☆	☆		☆							☆	☆			☆	☆	
ILLINOIS																												
Amoco Corporation Chicago 312-856-6667							☆																					
Chicago Fire Department Air/Sea Rescue Section Chicago 312-744-4718									☆				☆			☆			☆									☆
Continental Illinois National Bank & Trust Company Chicago 312-923-3576			☆	☆			☆			☆																		
Sears Roebuck and Company Chicago 312-585-1282							☆																					

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Midwest Helicopter Airways, Inc. Hinsdale 312-325-7860			☆	☆		☆			☆	☆	☆	☆		☆	☆					☆								
Illinois State Toll Highway Authority Oakbrook 312-574-2000																☆			☆				☆					☆
Illinois Dept. of Transportation Division of Aeronautics Springfield 217-785-8380									☆	☆						☆			☆				☆	☆				☆
Perkinson Copters, Inc. Warrensburg 800-673-4323	☆		☆					☆					☆		☆		☆	☆				☆						
INDIANA																												
Black Beauty Coal Company, Inc. Evansville 812-424-9000							☆																					
Public Service Company of Indiana Plainfield 317-838-1575						☆	☆			☆				☆								☆	☆					
KENTUCKY																												
Diamond Shamrock Aviation Co. Lexington 606-666-7581							☆																					
Shamrock Coal Company Manchester 606-598-6151							☆																					
LOUISIANA																												
Heli-Air Inc. Broussard 318-856-8163			☆						☆	☆	☆	☆									☆					☆		
Air Logistics Lafayette 318-365-6771		☆	☆	☆					☆	☆	☆	☆	☆	☆	☆						☆	☆						
Industrial Helicopters, Inc. Lafayette 318-233-3356	☆		☆			☆				☆	☆	☆			☆		☆				☆	☆	☆			☆		
Petroleum Helicopters, Inc. Lafayette 318-235-2452			☆			☆			☆	☆	☆	☆			☆						☆	☆	☆					
ERA Helicopters, Inc. Gulf Coast Division Lake Charles 318-478-6131		☆	☆			☆			☆		☆	☆		☆							☆	☆						
Mobil Oil Exploration & Producing Southeast, Inc. Morgan City 504-631-5500							☆			☆											☆							

Regular

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Chevron U.S.A. Inc. New Orleans 504-241-2120							☆														☆							
Exuma Aviation, Inc. New Orleans 504-582-2444																									☆			
Shell Offshore, Inc. New Orleans 504-588-4591							☆			☆											☆							
MARYLAND																												
Baltimore Gas & Electric Co. **Baltimore** **301-234-5000**							☆			☆												☆	☆					
Security Ford Tractor, Inc. **Baltimore** **301-247-9600**							☆																					
D.O.C., Inc. **Bethesda** **301-951-1300**										☆																		
Whirlybird Inc. **Timonium** **301-561-5800**			☆					☆		☆													☆			☆		
MASSACHUSETTS																												
Digital Equipment Corporation Bedford 617-276-4980							☆			☆																		
Simplex Time Recorder Co. Gardner 617-632-0451							☆																					
HubExpress, Incorporated Stow 617-897-5500			☆		☆					☆																		
Data General Corporation Westboro 617-366-8911							☆																					
MICHIGAN																												
McMahon Helicopter Services, Inc. **Canton** **313-459-5980**			☆					☆		☆												☆	☆	☆				
Allied Automotive **Detroit** **313-941-2300**							☆																					
B & G Helicopter Corp. **Grand Rapids** **616-698-9050**			☆			☆			☆	☆		☆			☆							☆	☆					☆

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Butterworth Aeromed, Inc. Grand Rapids 616-776-1985									☆																			
Metro Copters Incorporated Whitmore Lake 313-231-3861							☆	☆															☆		☆			☆
MISSOURI																												
Anheuser-Busch Companies, Inc. Flight Operations Chesterfield 314-532-2448							☆																					
Midwest Helicopter Airways, Inc. Kansas City 816-471-7988			☆			☆				☆	☆	☆								☆								
Emerson Electric Co. St. Louis 314-426-1137							☆																					
Fostaire Helicopters St. Louis 314-421-5440			☆					☆	☆	☆		☆			☆							☆	☆			☆		☆
Helicopters Inc. St. Louis 314-351-1400			☆					☆	☆	☆		☆			☆							☆	☆			☆		☆
St. Louis Helicopter Airways Inc. St. Louis 314-532-1177			☆			☆		☆	☆	☆		☆			☆								☆	☆				☆
NEBRASKA																												
Duncan Aviation, Inc. Lincoln 402-475-2611			☆						☆	☆												☆	☆					
Gemini Aviation Omaha 402-393-2144							☆				☆																	
NEVADA																												
El Aero Services, Inc. Elko 702-738-7123			☆							☆	☆	☆	☆	☆	☆		☆	☆				☆				☆	☆	
El Aero Services, Inc. Ely 702-289-8804			☆							☆	☆	☆	☆	☆	☆		☆	☆				☆				☆	☆	
Action Helicopter Service Las Vegas 702-361-0013		☆	☆	☆				☆		☆	☆		☆	☆	☆			☆				☆	☆			☆		☆
Heavenly Valley Helicopters, Inc Stateline 916-541-1330			☆			☆	☆		☆	☆	☆	☆		☆			☆						☆			☆	☆	

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NEW HAMPSHIRE																												
Aero Support, Inc. **Bedford** **603-644-3003**			☆	☆		☆				☆												☆	☆			☆	☆	
Joe Brigham, Inc. **Bow** **603-225-3134**	☆		☆			☆				☆		☆		☆								☆	☆					
New Hampshire Helicopters, Inc. **Hampton** **603-926-4949**			☆							☆					☆								☆			☆		☆
The Henley Group Inc. **Manchester** **603-627-4338**							☆			☆																		
Magnum Leasing & Mortgage Corp. **Nashua** **603-891-0003**			☆				☆			☆													☆					
White Mountain Airways **North Conway** **603-356-2930**			☆							☆				☆	☆				☆				☆		☆	☆	☆	☆
Frank L. Whitcomb **d/b/a Drewsville Airways** **Walpole** **603-445-5555**							☆																		☆			
NEW JERSEY																												
Express Marine, Inc. Camden 609-541-4600							☆			☆											☆							
J. Fletcher Creamer & Son, Inc. d/b/a J.F.C. Helicopter, Inc. Hackensack 201-488-9800			☆							☆																		
Metropolitan Helicopter Service Holmdel 201-946-8134			☆				☆			☆													☆					
Warner Lambert Company Flight Operations Morris Plains 201-540-4901							☆																					
Allied Signal Corporation Allied Aviation Department Morristown 201-455-6012							☆			☆																		
AT&T Resource Management Aviation Division Morristown 201-326-1400							☆																					
P.A.B. Aviation Morristown 201-538-3241										☆																		

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
New Jersey Bell Telephone Co. Newark 201-649-2813							☆																					
Public Service Electric and Gas Company Newark 210-430-6059							☆		☆													☆	☆					
Analar Corp. Church & Dwight Co., Inc. Princeton 609-683-4790			☆	☆			☆			☆												☆	☆			☆		☆
Alemdar Helikopter Servis Ltd. S. Plainfield 201-756-1555	☆	☆	☆						☆	☆												☆	☆			☆	☆	
Schiavone Construction Co. Secaucus 201-867-5070			☆	☆						☆												☆	☆			☆		
Colgate-Palmolive Company Teterboro 201-288-1811							☆																					
Executive Air Fleet Corporation Teterboro 201-288-8400		☆	☆				☆			☆																		
Port Authority of New York and New Jersey Teterboro 201-288-2761																☆												
Caesars Atlantic City Trenton 215-736-8402							☆																					
Damin Aviation Corporation Weehawken 201-863-7200			☆	☆			☆	☆		☆								☆				☆	☆					☆
Golden Nugget Transportation Corp. Weehawken 201-863-3050							☆																					
Resorts International Airlines, Inc. (RIA) Weehawken 201-865-6900		☆	☆		☆		☆			☆													☆			☆		
Dow Jones & Co. West Trenton 609-882-4516							☆																					
Pfizer, Inc. West Trenton 609-771-0550							☆																					

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NEW MEXICO																												
Aero West Management Service, Inc. Albuquerque 505-243-9031	☆		☆			☆		☆				☆	☆		☆		☆						☆				☆	
Pay-Jay Air, Inc. Artesia 505-748-1331			☆				☆			☆							☆					☆	☆		☆	☆		
NEW YORK																												
New York State Police Albany 518-457-5929									☆	☆						☆			☆				☆					☆
State of New York Aviation Albany 518-457-1200									☆	☆		☆	☆	☆		☆								☆				
Aviation Services Unlimited Barneveld 315-896-2076			☆	☆		☆				☆	☆		☆	☆	☆			☆				☆	☆	☆		☆	☆	☆
Inland Aero Service, Inc. Batavia 716-343-4471	☆																											
GTS International, Ltd. Buffalo 716-856-6500										☆																		
International Union of Operating Engineers Local No.138 Farmingdale 516-694-2480						☆	☆		☆												☆							
Villa Banfi Farmingdale 516-292-3500							☆																					
Island Helicopter Corporation Garden City 516-228-9355	☆		☆	☆	☆		☆	☆	☆	☆													☆			☆		
WOR Radio New York 212-642-2000																												☆
Heussler Air Service Corp. Niagara Falls 716-297-4497			☆					☆	☆	☆								☆				☆	☆	☆		☆		☆
Thomson Industries, Inc. Port Washington 516-883-8000			☆				☆			☆																		
General Transportation Corp. Ronkonkoma 516-588-5321							☆																					
Reavcom Services Inc. Spring Valley 212-344-7920			☆	☆			☆			☆													☆					

Regular

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IBM Corporation Flight Operations Wappingers Fall 914-463-4400							☆			☆																		
Onandaga County Sheriff's Department Warners 315-425-3095									☆										☆				☆					☆
Kirby N.Y. Realty Company Westhampton Beach 516-288-4053							☆																		☆			
American Express Company White Plains 914-948-5311							☆																					
Bristol-Myers Company White Plains 914-761-5766							☆																					
General Electric Air Transport Operation White Plains 914-684-9850										☆																		
Joseph E. Seagram & Sons, Inc. White Plains 914-761-4915							☆																					
View Top Corporation White Plains 914-428-8780							☆																					
Wayfarer Ketch Corporation White Plains 914-949-4424			☆				☆																					
Yonker's Contracting Company Yonkers 914-965-1500						☆				☆																		
NORTH CAROLINA																												
Community Helicopters Kannapolis 704-938-8211						☆				☆													☆			☆		
Triad Helicopters, Inc. Winston-Salem 919-767-4057			☆					☆		☆													☆					
NORTH DAKOTA																												
Executive Air Taxi Corp. Bismarck 701-258-5024			☆					☆	☆	☆					☆		☆					☆	☆					
Minnkota Power Co-op, Inc. Grand Forks 701-795-4430							☆																					

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
University of North Dakota Center for Aerospace Sciences Grand Forks 701-777-2791							☆			☆						☆												
OHIO																												
New Horizons Aviation Inc. **Cincinnati** **513-[illegible]-1535**			☆					☆		☆												☆	☆					☆
University Air Care **University Hospital** **Cincinnati** **513-872-7522**									☆																			
Helicopter Minit-Men, Inc. **Columbus** **614-486-9309**	☆											☆										☆	☆					
Dana Corporation **Swanton** **419-535-4625**							☆																					
OKLAHOMA																												
Tulsa Security, Inc. Tulsa 918-584-2431							☆			☆									☆				☆					
OREGON																												
Bertea/Aviation Inc. **Corvallis** **503-753-4466**			☆									☆	☆	☆	☆			☆					☆			☆		☆
Snowy Butte Aviation, Inc. **Eagle Point** **503-826-1500**			☆				☆			☆				☆			☆						☆					
Bohemia Inc. **Eugene** **503-342-6262**			☆						☆			☆	☆	☆	☆								☆					
Heli-Jet Corporation **Eugene** **503-461-0310**	☆		☆			☆					☆	☆	☆	☆	☆													
Hillsboro Helicopters Inc. **Hillsboro** **503-648-2831**			☆					☆		☆	☆	☆		☆	☆			☆					☆					
United Telephone Company **of the Northwest** **Hood River** **503-387-9374**							☆																					
Mid Valley Helicopters, Inc. **Jefferson** **503-327-1169**	☆		☆	☆				☆		☆	☆	☆	☆	☆	☆		☆					☆		☆		☆		☆
Rambling Rotors, Inc. **La Grande** **503-963-5644**	☆		☆			☆			☆			☆	☆	☆	☆			☆				☆	☆			☆	☆	

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Evergreen Helicopters Inc. McMinnville 503-472-9361	☆		☆	☆					☆		☆	☆	☆	☆	☆					☆	☆	☆	☆					
Columbia Helicopters, Inc. Portland 503-678-1222			☆			☆					☆	☆	☆		☆					☆	☆	☆						
Hospital AirTransport Inc. Portland 503-648-4291			☆				☆		☆																			
Portland General Electric Company Portland 503-226-8820							☆															☆						
Reforestation Services, Inc. Salem 503-362-8322	☆		☆									☆		☆	☆		☆					☆						
TransWestern Helicopters, Inc. Scappoose 503-226-4731	☆		☆			☆		☆		☆	☆	☆	☆	☆	☆		☆	☆				☆	☆	☆		☆		
PENNSYLVANIA																												
Lehigh Valley Helicopter, Inc. Allentown 215-398-2988										☆													☆					
Mack Trucks, Inc. Allentown 215-439-2102							☆																					
WNEP-TV, a New York Times Co. Avoca 717-826-1616								☆																				
Royale Helicopter Service, Inc. Burgettstown 412-947-3366			☆			☆		☆		☆	☆			☆	☆							☆	☆	☆		☆		☆
Fleet Helicopter Services Coopersburg 215-282-4100		☆	☆					☆	☆	☆					☆			☆				☆	☆			☆		
EmergyCare, Inc. (Life Star Helicopter) Erie 814-453-7602									☆																			
Rorer Group Inc. Fort Washington 215-628-6497							☆																					
Ag Rotors Inc. Gettysburg 717-334-6777	☆		☆			☆				☆		☆	☆	☆								☆						
Sebastiani Helicopters Harrisburg 717-564-8615			☆							☆				☆	☆							☆	☆			☆		☆

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Tri-County Helicopters Myerstown 717-866-5795			☆							☆					☆								☆		☆	☆		
Nolan A. Perin, Inc. Pen Argyl 215-863-6057							☆			☆															☆			
Sterling Helicopter, Inc. Philadelphia 215-271-2510			☆					☆		☆												☆	☆			☆		☆
Sun Company, Inc. Philadelphia 215-293-6586										☆																		
Corporate Jets Inc. Pittsburgh 412-462-2800			☆				☆	☆	☆	☆																		
Rockwell International Corp. Pittsburgh 412-565-5814							☆																					
USX Corporation Aircraft Division Pittsburgh 412-433-4833							☆																					
Helicopter Systems, Inc. Scottdale 412-887-4000	☆		☆			☆						☆	☆	☆	☆							☆	☆					
Hawk Air, Inc. Telford 215-257-8911																						☆	☆			☆		
Conoco, Inc. Aviation Department W. Mifflin 412-469-0443							☆			☆																		
Keystone Helicopter Services West Chester 215-644-4430			☆	☆			☆	☆	☆	☆					☆			☆				☆						
RHODE ISLAND																												
Textron, Inc. Textron Aircraft Department Warwick 401-457-2338										☆															☆			
SOUTH CAROLINA																												
Wackenhut Services, Inc. Aiken 803-557-6617																			☆									
Omniflight, Inc. Charleston 803-762-1620	☆	☆	☆		☆			☆	☆	☆											☆	☆						

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
South Carolina Aeronautics Commission Columbia 803-734-1700										☆					☆	☆			☆									
South Carolina Pipeline Corp. Columbia 803-788-3220							☆			☆												☆						
Milliken & Company Greer 803-877-8338							☆																					
HawkAir, Inc. Hilton Head Island 803-842-5275			☆																							☆		
TENNESSEE																												
Edwards & Associates, Inc. Bristol 615-538-5111			☆							☆					☆								☆			☆		
U.T. LIFESTAR, Aeromedical Services-University of Tennessee Knoxville 615-544-9112									☆																			
Thompson & Green Machinery Company, Inc. Lavergne 615-256-2424			☆				☆																					
TEXAS																												
SilverStar Aviation, Inc. Addison 214-233-6464			☆					☆	☆	☆	☆	☆			☆						☆	☆						
Tiller Helicopter Service Inc. Alice 512-664-6453	☆		☆	☆											☆		☆	☆				☆	☆					
J & J Maintenance Inc. Austin 512-444-7271															☆										☆			
Gene Branscome Investments Baytown 713-420-5777						☆	☆			☆							☆						☆					
Reem Air Ltd. Brownsville 512-831-4482			☆	☆		☆	☆	☆	☆	☆	☆		☆		☆													
EDS Helicopter Division Dallas 214-661-6000							☆			☆															☆			
Executive Airlift Helicopters, Inc. Dallas 214-330-8167			☆							☆												☆	☆			☆		☆

Regular

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Flight Management Group, Inc. Dallas 214-902-8000			☆				☆																		☆			
Lone Star Helicopters, Inc. Dallas 214-931-5545			☆			☆		☆		☆		☆			☆							☆	☆			☆		
Million Air Dallas 214-248-1600			☆				☆			☆													☆		☆	☆		
Recon Air, Inc. Dallas 214-960-8600			☆								☆											☆	☆	☆				
Fort Worth Police Air Support Fort Worth 817-870-8310										☆			☆			☆			☆				☆	☆				☆
Exxon Company USA Houston 713-656-2503							☆				☆										☆							
Hermann Hospital-Life Flight Houston 713-797-2788									☆																			
Houston Pipe Line Company Houston 713-654-6828							☆														☆				☆			
Shell Oil Company Houston 713-443-3881							☆																					
Starship Aviation Houston 713-663-4560		☆	☆					☆															☆					☆
Tenneco, Inc. Houston 713-757-8107							☆														☆	☆						
Transco Energy Company Houston 713-821-1004							☆														☆							
Ty-Tua Inc., Aviation Service Subsidary of Smith Industries Houston 713-644-1081			☆			☆		☆	☆	☆					☆							☆	☆			☆		☆
Benz Sales Company Hurst 817-282-1212						☆																			☆			
Midland Helicopters Inc. Midland 915-683-7032							☆																		☆			
Gulf Coast Helicopters, Inc. Pearland 713-485-7345		☆	☆	☆		☆		☆		☆	☆				☆		☆				☆	☆	☆			☆		☆

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Houston Helicopters, Inc. Pearland 713-485-1777			☆			☆					☆	☆	☆		☆						☆	☆	☆					
South Texas Helicopters San Antonio 512-824-3316		☆					☆	☆		☆												☆	☆	☆		☆		☆
YX Helicopter Service San Antonio 512-624-3128	☆					☆				☆	☆						☆	☆					☆			☆		
Emory Aviation, Inc. Sherman 214-786-3333							☆																					
D.H. Braman Company Victoria 512-526-2568							☆			☆							☆		☆			☆						
Texas Starship Enterprises Wylie 214-442-1831			☆																									
UTAH																												
Rocky Mountain Helicopters, Inc. **Provo** **801-375-1124**	☆		☆			☆		☆	☆	☆	☆	☆	☆	☆	☆		☆	☆		☆		☆	☆				☆	☆
KSL Television **Salt Lake City** **801-575-5555**							☆	☆															☆					☆
VIRGIN ISLANDS																												
Antilles Helicopters St. Thomas 809-776-7880 or 800-443-7195				☆	☆							☆													☆			☆
VIRGINIA																												
Summit Helicopters, Inc. **Cloverdale** **703-992-5500**	☆		☆			☆				☆		☆	☆	☆	☆							☆	☆					
Zodiac Helicopters **Dumfries** **703-690-3816**			☆												☆													
Crippen Companies **Great Falls** **703-450-5650**						☆	☆			☆													☆					
Cambata Aviation S.A. **Millboro** **703-996-4105**							☆																					
City of Virginia Beach **Virginia Beach** **804-427-4192**																☆			☆				☆					

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
WASHINGTON																												
Cascade Helicopters, Inc. Cashmere 509-782-2915	☆		☆			☆			☆	☆	☆	☆	☆	☆	☆		☆					☆	☆			☆	☆	
HiLine Helicopters Inc. Darrington 206-436-1302			☆						☆			☆	☆	☆	☆					☆						☆		
Eagle Air Helicopters, Inc. Forks 206-374-9276			☆			☆					☆	☆	☆	☆	☆					☆			☆					
Liberty Helicopters Inc. Point Roberts 604-946-5581			☆								☆			☆														
Rockwell International Hanford Operations Richland 509-373-1992															☆	☆			☆									
Aero-Copters Inc. Seattle 206-763-2177			☆						☆	☆	☆	☆	☆	☆	☆							☆	☆			☆	☆	
Pacific Lumber & Shipping Co. Seattle 206-682-7262			☆					☆		☆				☆									☆			☆		
Puget Sound Helicopters Inc. Seattle 206-762-8273			☆					☆		☆								☆					☆			☆		☆
Weyerhaeuser Company Tacoma 206-241-2858	☆		☆							☆		☆	☆															
WEST VIRGINIA																												
High Tech Applications, Inc. Elkins 304-636-5774	★		★						★	★	★			★	★							★	★				★	
WISCONSIN																												
S.C. Johnson Son, Inc. Racine 414-631-2707							☆																					
WYOMING																												
Hawkins & Powers Aviation Inc. Greybull 307-765-4482	★		★			★			★	★	★	★	★	★	★		★	★		★		★	★	★		★		

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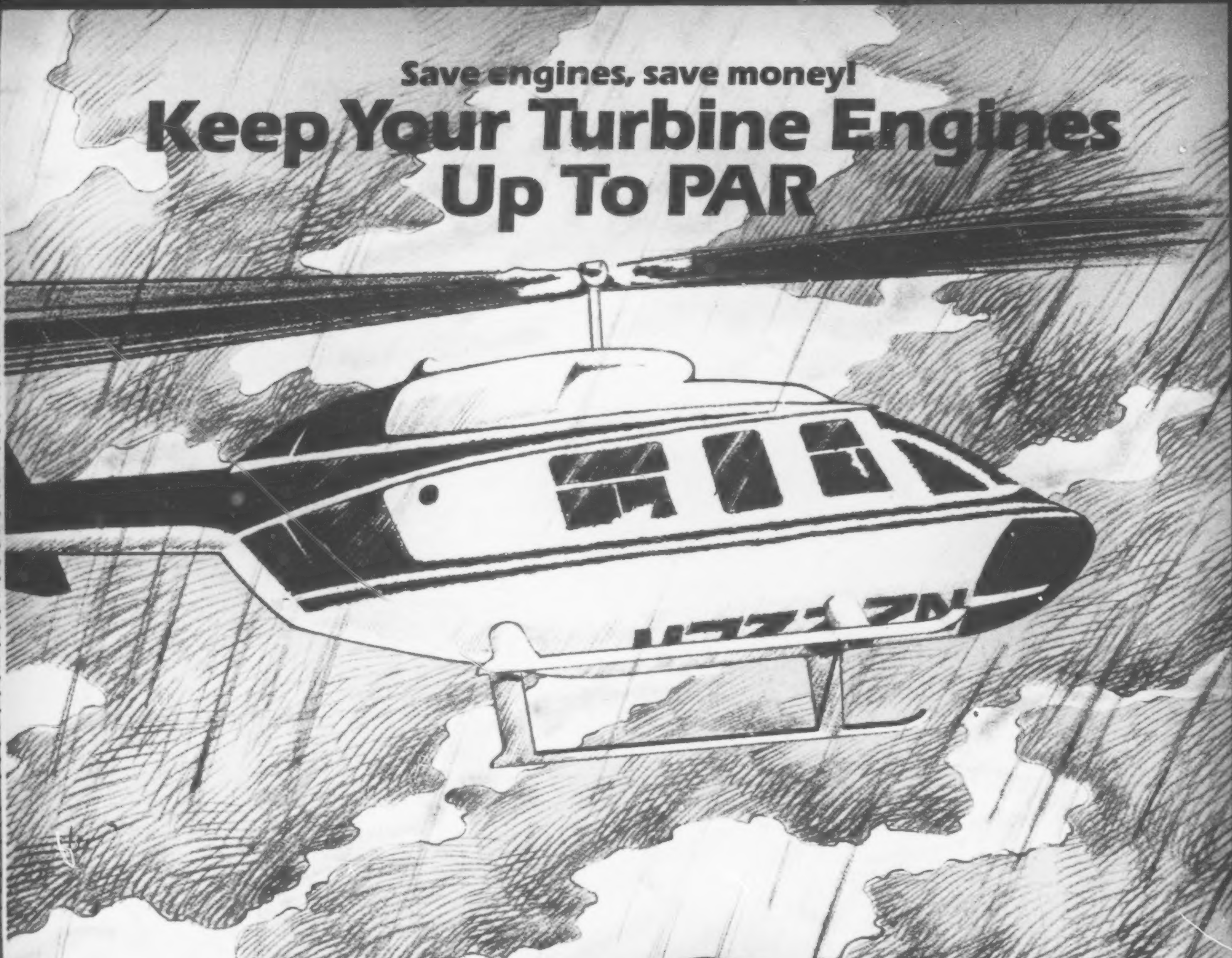

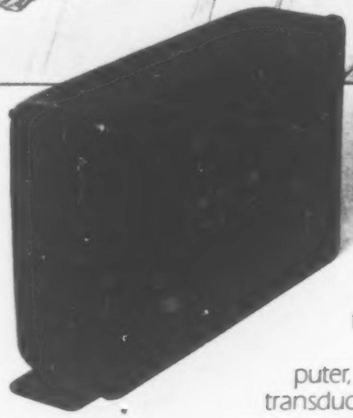

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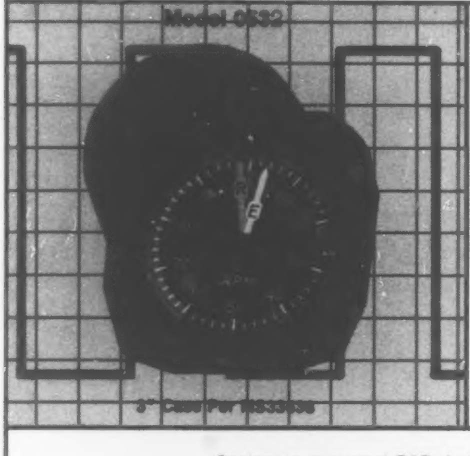

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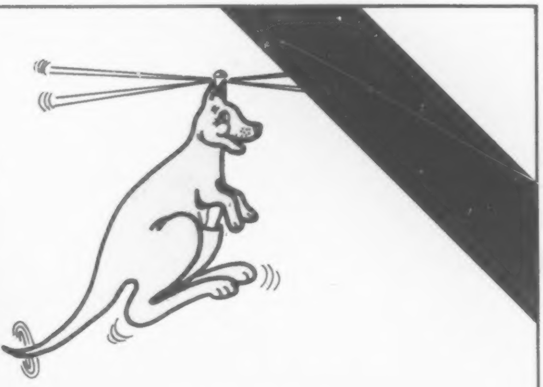

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☎ 818-246-8431 ■ 315994
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Vice President: Steven W. Williamson
Director of Purchasing: Peter J. Maher
Services: Sales and service of aircraft and industrial instrumentation.

A. E. Petsche Co., Inc.
2112 West Division
Arlington, TX 76012
☎ 817-461-9473 ■ 910-8904905 ♦ 817-277-2887
General Manager: Roger Studer
Vice President/Sales: Vern Hatley
National Marketing Manager:
Richard A.A. Hall
Services: Worldwide distributor of high temperature wire. cable and associated products specifically designed for the aviation, aerospace industry.

Abex Corporation
Aerospace Division
2850 Skyway Drive
Santa Maria, CA 93455
☎ 805-928-2671 ■ 752550 ♦ 805-928-2671
Director, Product Support: R.L. Bell
Plant Manager: Jerry O'Brien
Manager, Product Support: Jack Kapich
O & R Administrator: Kathy Boardman
Services: Service center for Abex manufactured hydraulic pumps, servo valves and integrated packages utilized on commercial and military helicopters.

ACR Industries, Inc.
29200 Calahan
Roseville, MI 48066
☎ 313-773-0450 ■ 230263
President: Michael J. Brzoska
Vice President of Sales: J.D. Hennen
Sales Representative: Bryan Barlow
Services: ACR is a major manufacturer of gearboxes, splined shafts and loose gears for the aerospace and defense industries.

Accessory Service Inc.
25139 Avenue Stanford
Valencia, CA 91355
☎ 805-257-2217 ■ 662630
President: James L. Durbin
Vice President, Operations:
Robert M. Clemens
Marketing Manager: Laura A. Burd
Sales Administrator:
Katherine P. Rudolph
Services: Manufacture, overhaul and repair of hydraulic system components. HR Textron, Ronson & Abex authorized service center/dealer.

Advanced Navigation, Inc. (ANI)
61 Thomas Johnson Drive
Frederick, MD 21701
☎ 301-695-4040 ■ 325994
President: Jimmie L. Toms
Sales Manager: Kenneth B. Foret
Services: Manufacture Loran-C Navigational equipment.

Aero Engineering Corporation
2000 Calumet Street
Clearwater, FL 33575
☎ 813-461-5758 ■ 803882 ♦ 813-443-4200
President: Harry J. Barkett
Director of Marketing: Michael F. Glass
Services: Manufacturer of helicopter air conditioning and heating systems.

Aero Support, Inc.
15117 Ventura Blvd.
Sherman Oaks, CA 91403
☎ 818-907-7591 ■ 656485
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Chief Financial Officer/Secretary:
Robert I. McCulley
Sales: Rick Schorling
Sales: David N. Jenkins
Services: Aircraft and helicopter sales; helicopter components and parts, repairs and sales.

Aeroflight Publications
P.O. Box 854
Gruver, TX 79040
☎ 806-339-1015
President: C.E. Johnson
Services: Prepare and publish minimum equipment lists for multi-engine aircraft. Also, serves as an aircraft consultant.

Aeronautical Accessories Inc.
P.O. Box 3689
Bristol, TN 37625
☎ 615-538-5151 ■ 553446 ♦ 615-538-8469
President: James A. Wolfe
Vice President: David W. Kent
Vice President/Marketing: Rick Lewis
Services: Manufacture/sale of helicopter accessories, replacement windows, interior trim, and sale/distribution of engine and airframe spares & components.

Aeronetics
2100 Touhy Avenue
Elk Grove Village, IL 60007
☎ 312-437-9300 ■ 253594
General Manager: R.L Young
Communications Manager: Ann T. Baldwin
Services: Design and manufacture of navigational flight instruments including RMI's, HSI's, and gyros.

Aeroquip Corporation
TEDECO Division
24 E. Glenolden Avenue
Glenolden, PA 19036-2198
☎ 215-583-9400 ■ 831429 ♦ 215-583-3985
Vice President and General Manager:
Thomas Tauber
Aerospace Sales and Marketing:
Henry Belman
Sales Manager, Aerospace: Robert F. Fenlon
Marketing Manager: Frank DiPasquale
Services: Manufacturer of condition monitoring products and fluid system accessories for the aerospace, industrial, military/mobile, and marine markets.

AeroRegs International
1101 Naugatuck Avenue
Milford, CT 06460-2317
☎ 203-878-1943
Managing Director: Theodore E. Dumont
Director, Administration:
Stephanie Pasacreta
Services: Aeronautical regulations consultant.

Aerosonic Corporation
1212 North Hercules Avenue
Clearwater, FL 33518
☎ 813-461-3000 ■ 52897 ♦ 813-447-5926
President: Herbert J. Frank
Executive Vice President: David Goldman
Director of Marketing: David W. Garringer
General Manager/Wichita Division:
Ray Simpson
Services: Manufacture and distribute flight instruments, engine instruments, and simulator instruments.

Aerospace Thermoforming, Inc.
2985 E. Miraloma Avenue
Suite J
Anaheim, CA 92806
☎ 714-632-7767
President: Jose G. Lopez
Vice President: Judy L. Kemp
Services: Complete line of helicopter interiors.

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2701 Forum Drive
Grand Prairie, TX 75053-4005
☎ 214-641-0000 ■ 730489 ♦ 214-641-3551
Chairman of the Board: Jean Quintard
President: Herbert B. Epstein
Vice President, Marketing: Ron LaFleur
V.P., Customer Support: John Niamtu
Director, Marketing Services:
Ralph Petragnani
Services: Helicopter manufacturing, sales, repairs, support services for North America.

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2-20 Avenue Marcel Cachin
La Courneuve, 93126, France
☎ 1-4838-9178 ■ 212836
Managing Director: Michel Thomas
Assistant Managing Director: Luc Barriere
Commercial Director: Lucien Lordereau
Charge de Missions: J. Marie Besse
Product Support Director: Yves Birotteau
Chief of Airworthiness: Hubert Portet
Services: Helicopter manufacturer.

AeroTech Publications Inc.
35 Throckmorton Lane
Old Bridge, NJ 08857
☎ 201-679-5151
President: Marvin M. Stern
V.P., Sales/Marketing: Susan Valentine
Services: Maintenance recordkeeping systems: adLog System: a complete record keeping system which organizes and centralizes all data for retrieval of all maintenance. For use with IBM, IBM PC and XT.

Agusta Aviation Corporation
Norcom & Red Lion Roads
Philadelphia, PA 19154
☎ 215-245-8860 ■ 6851181
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Vice President, Marketing:
R.F. "Fritz" Harvey
Vice President of Operations:
Robert G. Shain
Vice President Business Development:
James Byrnes
Manager, Marketing Services: Sue Godar
Director of Corporate Communications:
Marco Cicero
Services: Marketing, sales and support maintenance services for the Agusta Light Twin helicopter.

The Air Charter Guide
55-B Reservoir Street
Cambridge, MA 02138
☎ 617-547-5811
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Vice President/Sales & Marketing:
Peter A. Boeing
Services: Semi-annual directory of on demand air charter services (U.S.); both fixed and rotary wing.

Air Pegasus
111 Dorsa Avenue
Livingston, NJ 07039
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Director of Operations: Robin J. Zucker
Public Relations: Booker Jones, jr.
Services: Air Pegasus is the fixed base operator for the VIP Heliport located at West 30th Street on the Hudson River in Manhattan offering pilot's lounge, meal service and fuel.

Air Track
P.O. Box 610
Hilliard, FL 32046
☎ 912-496-7513
Editor: Lee Wonnacott
Publisher: Glenn Wonnacott
Services: Publishes Rotor Roster; Market research based on U.S. and foreign registry data.

Air-Sure, Ltd.
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Suite 102
Plano, TX 75023
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Executive Vice President: Brad Lowrey
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Air/Space America
6110 Friars Road
Suite 204
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☎ 619-294-8808
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Bob Wilson
Executive Vice President: Bill Walsh
Director of Operations: Ray Miller
Director of Marketing: Speck Barker
Services: Biennial international aerospace trade exposition commencing in May of 1988 to increase U.S. aerospace exports and showcase the aerospace industry.

Aircraft Gear Corporation
6633 W. 65th Street
Chicago, IL 60638
☎ 312-594-2100 ■ 270455
President: Ken M. Spurgeon
Executive Vice President:
Kieth E. Sladek
Vice President, Marketing & Sales:
George Baena
Vice President, Finance: Sal Barbaro
Services: Manufacturer of gears, gearboxes and rotor shafts for helicopters.

Aircraft Gear Corporation
Arizona Division
1800 S. Price Road
Chandler, AZ 85248
☎ 602-821-2434
Vice President/General Manager:
Carl Reed
Services: Design, engineering and manufacturing of aircraft drive component systems.

Aircraft Marketing, Ltd.
414 Hungerford Drive - Suite 232
Rockville, MD 20850
☎ 301-424-9047 ■ 150117
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Vice President: Rhonda Sucher Kaminsky
Market Researcher: Glenn Kaminsky
Market Researcher: Greg Morris
Services: Business aircraft and helicopter brokerage and sales.

Aircraft Parts Corporation
160 Finn Court
Farmingdale, NY 11735
☎ 516-249-3053 ■ 961341
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Sales Manager: J. Galan
Chief Electrical Engineer: R. Denniston
Chief Electronic Engineer: F. Di Paola
Services: Manufacturer of turbine engine starter-generators & starter motors, piston engine starters, voltage regulators and generator control units.

Aircraft Technical Publishers
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☎ 415-468-1705 ■ 171048
President: Caroline Daniels
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Airwork Corporation
Millville Municipal Airport
Millville, NJ 08332
☎ 609-825-6000 ■ 178472
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Marketing Manager: Terry Scott
Program Manager: Gary Schiff
Service Manager: Bob Holmes
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Airwork Corporation
1740 N.W. 69th Avenue
Miami, FL 33126
☎ 305-592-3040 ■ 153763 ♦ 305-591-8342
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Services: Airwork/Miami is an authorized distributor of the Allison 250 engine, offering complete overhaul, exchange or repair support.

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Aviation & Aerospace Division
220 East 42nd Street
New York, NY 10017
☎ 212-806-6600 ■ 961007
Vice President & Managing Director:
Joseph M. Rosenthal
Broker: Louis E. Nunez
Services: Insurance placement, risk analysis, risk management and self insurance services.

All-System Aerospace
International, Inc.
29 Central Avenue
Hauppauge, NY 11788
☎ 516-582-9200 ■ 221-654/497
President: Karl G. Zacek
Services: Airframe spares for U.S. manufactured helicopters. Also, handle export sales.

Allison Gas Turbine Division
General Motors Corporation
P.O. Box 420
Indianapolis, IN 46206-0420
☎ 317-242-3121 ■ 6711029 ♦ 317-242-0966
General Manager: F. Blake Wallace
Director, Small Aircraft Engines:
G. H. Mayo
Business Manager/T406 & T56 Series IV:
N. J. Blaskoski
Director, Small Engine Business Operations:
C. E. Wagner
Manager, Model 250 Sales: J. D. Flanders
Director of Communications:
W. C. Campbell
Manager of Advertising: A. A. Perona
Services: Allison Gas Turbine Division manufactures small and large gas turbine engines used in rotary wing, fixed wing and industrial applications.

Alpha Aviation Insurance Agency, Inc.
Airport 17 - 377 Route 17
Hasbrouck Heights, NJ 07604
☎ 201-288-4831 ■ 133545 ♦ 201-288-0782
President: Francis P. Brown
Vice President: Larry Mattiello
Administrative Assistant:
Susan Beck
Services: Aviation insurance, including placement, risk analysis, and risk management.

Alyeska Pipeline Service Co.
1835 S. Bragaw Street
Anchorage, AK 99567
☎ 907-265-8538 ■ 25127
President: G.M. Nelson
Specialist/Aviation Services: Joseph C. Lieto
Services: Crude oil pipeline. (Company is a lessor of helicopter services).

Anavibe Services, Inc.
218 Front Road
Hawkesbury, ON, K6A 2S9, Canada
☎ 613-632-2502
President: Mike Charland
Services: Helicopter/powertrain vibration monitoring and diagnostic services. Trend analysis & predictive maintenance programs. Precision field balancing of rotor systems.

ARCO
P.O. Box 7087
Dallas, TX 75209
☎ 214-358-6600
Aviation Manager: Robert M. Cone
Operations Manager: Paul DeVries
Charter/Contracts (Operations):
John W. Brown
Charter/Contracts (Operations):
Dannis Livingston
Services: Petroleum.

ARNAV Systems, Inc.
P.O. Box 23939
Portland, OR 97223
☎ 503-684-1600 ■ 510-600-2185
President: Dennis B. Nichols
Sales Manager: Charles E. Armiger
Services: Avionics manufacturer.

Arabian American Oil Company
Aviation Department
Box 80
Dhahran, Saudi Arabia
☎ 876-2339 ■ 601220 ♦ 876-1590
Manager, Aviation Department:
M.W. Townsend
Services: Oil exploration and production.

Argo-Tech Corporation
23555 Euclid Avenue
Cleveland, OH 44117
☎ 216-692-5965
Vice President/Div. Manager:
R.T. Craig
Manager, Aircraft Accessories:
R.L. Schroeder
Requirements Manager: P.D. Totedo
Senior Sales Engineer: James B. Nolish
Senior Sales Engineer: P. Lexow
Services: Design, manufacture assembly & test of aircraft & engine fuel pumps & accessories; propulsion assemblies for underwater weapons systems.

Arrow Falcon Exporters, Inc.
P.O. Box 1509
Porterville, CA 93257
☎ 209-781-8604 ■ 682402 ♦ 209-781-9271
President: Victor V. Symonds
Secretary/Treasurer: B.J. Symonds
V.P./Sales & Marketing: Edward Mangel
General Manager: Melvin Bartholomew
Services: Arrow Falcon sells aircraft and helicopter parts internationally. Its' subsidiary, Aircraft & Helicopter Maintenance, Inc. is an FAA repair station.

Arrow Magnolia International
2646 Rodney Lane
Dallas, TX 75229
☎ 214-247-7111
Vice President: Mark Kenner
Vice President, Marketing:
Fred Kenner
Sales: Alan Goldberg
Sales: Don Simon
Services: Unique two phase program designed to remove carbon, oil, grease and corrosion leaving a slick, friction-free, tension breaker coating.

ASC Industries
1227 Corporate Drive West
Arlington, TX 76006
☎ 817-640-1300 ■ 163107 ♦ 817-649-2685
President/CEO: Gary Gilkerson
Vice President/General Manager: Ollin Taylor
General Sales Manager: Kelly Koons
Services: Large stocking distributor of aerospace hardware and fasteners including: AN, MS, NAS, customer part numbers and manufacturer part numbers.

ASCO Flight Watch
3066 Mercer University Drive
Suite 100
Atlanta, GA 30341

Safety Manual

Looking for information on the civil helicopter indtustry? Helicopter Association International has it! Just give us a call, and it's in the mail to you. Here's a partial list of the many valuable publications from HAI:

- The Helicopter Annual
- The Fly Neighborly Guide
- Rotorgram and ROTOR
- The Heliport Development Guide
- HAI Safety Manual
- Visibility Unlimited, a guide to public relations for the helicopter operator.
- Maintenance/Malfunction Information Reports
- Preliminary Accident Reports
- Decision Making Manual for Helicopter Pilots
- Community Rotorcraft Transportation Benefits and Opportunities
- Amicus Briefs in support of the civil helicopter industry
- The Helicopter in the Urban/Suburban Environment
- Helicopter Operating Cost Estimate Guide

Contact HAI Headquarters for a complete list of publications and their prices. HAI, Attn. Publications, 1619 Duke Street, Alexandria, VA 22314-3406. Or call to order: 703-683-4646.

☎ 404-452-7654 ■ 62978676
President: Ben Farmer
Services: Computerized aviation software for aircraft maintenance, inventory control, flight scheduling and complete department record keeping.

Associated Air Center
P.O. Box 20718
Dallas, TX 75220
☎ 214-350-4111 ■ 732448
President: Lee Juan Lanford
Vice President/Marketing: Roy Gilbreath
Executive V.P./Public Relations: Jerry King
Vice President/Marketing: Robert W. Smith
Services: AAC is a complete helicopter overhaul and completion center, avionics, VIP interiors, paint, air-conditioning, EMS.

Associated Aviation Underwriters
51 JFK Parkway
Short Hills, NJ 07078
☎ 201-379-0800 ■ 497-4321 ♦ 201-379-0900
President: Daniel M. Izard
Senior Vice President: Harold F. Hirt
Vice-President: Anthony Vlach
Vice-President: Edward Williams
Services: Aviation hull and liability insurance, manufacturer's products liability coverages and risk management operations surveys.

ATC Flight Simulator Co.
1650 19th Street
Santa Monica, CA 90404
☎ 213-453-3557 ■ 284687
President: Barry Grant
Marketing Manager: Emmet Ryder
Services: Manufacturer of fixed and rotary flight simulators.

Atlantic Aviation Corporation
P.O. Box 15000
Wilmington, DE 19850
☎ 201-288-1740 ■ 13-4529
President: William Patrick
Executive Vice President:
Malcolm S. Graham
Vice President/General Manager:
John E. Craig, Jr.
Manager, Aircraft Maintenance:
Harold Pickens
Services: Authorized service center for Aerospatiale, Bell, MBB, Allison & Lycoming. Total support capabilities include maintenance/spares/completions.

Austin Jet Corp.
P.O. Box 13063
Austin, TX 78711
☎ 512-472-8739 ■ 322353
President: Kirk Hays
V.P. Helicopter Mktg. & Operations:
Ron Bower
Avionics Manager: Matt Gordon
Director of Maintenance: Tom Hoover
Services: Buy and sell used Bell helicopters in international market. Major airframe engine and avionics work on helicopters.

Avfuel Corporation
625 State Circle
Ann Arbor, MI 48108
☎ 313-663-6466
President/CEO: Craig R. Sincock
Vice President: Craig Faiman
V.P., Operations: William B. Light
V.P., Marketing: Bob Shepherd
Services: Nation's leading independent supplier of aviation fuels. Distributors for: Phillips, Shell, Sun, Amoco, Sohio, Union 76, and Avfuel Brand.

Aviall, Inc.
P.O. Box 7086
Dallas, TX 75209-0086
☎ 214-956-5000 ■ 730601 ♦ 214-956-5712
President: R.G. Lambert
Executive Vice President: J.L. Wallace
Group Vice President: J.A. Rigby
Vice President: D.W. Taylor, Jr.
Services: Major worldwide repair source for airline and general aviation & distributor of aircraft parts & supplies. (Aircraft support services).

Aviation and Fire Management Center - Government of Ontario
747 Queen Street East
Box 310
Sault Ste. Marie, ON, P6A 5L8, Canada
☎ 705-942-1800 ■ 067-77166 ♦ 705-942-0182
Director: L. Lingen Felter
Assistant Director - Aviation:
Ronald J. Kincaid
Chief Pilot - Helicopters: R.G. Gibson
Maintenance Manager: G. Willoughby
Chief Inspector: S. Denley
Services: The Aviation and Fire Management Center provides management services for the Ontario government aircraft fleet.

Aviation Business Consultants, Inc.
7507 S. Tamiami Trail
Suite 176
Sarasota, FL 34231
☎ 813-921-4941
President: Stephanie V. Slavin
Services: Development of heliports and helicopter transportation systems for cities, international airports, corporate office parks, and hospitals.

Aviation Consulting Inc.
1615 Northern Boulevard
Manhasset, NY 11030
☎ 516-627-7676 ■ 647044
President: William B. Watt
Senior Vice President: John L. Conte
Vice President: Noel G. Preston
Vice President: Jack B. Feir
Services: Safety evaluations, helicopter comparative evaluations and selection plans, helicopter & equipment appraisals, mishap investigations, and market planning.

Aviation Equipment Maintenance Magazine
7300 N. Cicero Avenue
Lincolnwood, IL 60646
☎ 312-588-7300
Publisher: Jack J. Howlett, II
Editor: Paul Berner
Promotion Manager: Arthur J. Kinnune
Marketing Manager: Jim Chrzan
Services: Monthly magazine for persons involved in professional maintenance, repair, overhaul and modification of fixed and rotary wing aircraft and ground support equipment.

Aviation Financial Management
14425 S.E. 40th
Bellevue, WA 98006
☎ 206-644-8006 ■ 322366
President: Mel Finnell
Services: AFM has business management software designed for the general aviation industry.

Aviation Fuel Cells International
5680 Shelby Drive
Memphis, TN 38115
☎ 800-238-3835 ■ 53835
President/CEO: G.R. Bass
Executive Vice President: C.L. Lanza
Director of Sales/Marketing: Patrick Manning
Plant Manager: Gerald Pendergraph
Services: Remanufactured fuel cells (overhauled) and helicopter floats. New and reman exchange available--24 hour/7 day service. (5 year warranty on reman cells).

Aviation Instrument Services
12213 S.W. 131 Avenue
Building A-7
Miami, FL 33186
☎ 305-251-7200 ■ 52-5110 ♦ 305-251-2300
President: James J. Sensale
Services: Sale or exchange of all types of helicopter instruments. We also purchase used instruments.

Aviation Insurance Center, Inc.
625 Spring Street
P.O. Box 7011
Wyomissing, PA 19610-7011
☎ 215-374-4040 ■ 902-252 ♦ 215-374-6578
Chairman of the Board: James R. Loomis
President: Jay Lavenson
Director of Operations: Peter Meshin
Services: Insurance of all forms for helicopter operators and owners--either personal or commercial.

Aviation Insurance Services, Inc.
3200 Wilshire Boulevard
15th Floor
Los Angeles, CA 90010
☎ 213-386-8120 ■ 674671 ♦ 213-383-9346
President: Ronald A. Hill
Executive Vice-President: Richard Gorsuch
Vice President: Carl Baldey
Treasurer: Teresa K. Heckart
Services: Full service, multi-line insurance brokerage firm specializing in helicopter and related aviation insurance programs.

Aviation Office of America Inc.
Love Field
Terminal Building
Dallas, TX 75235-2841
☎ 214-353-1400 ■ 73363 ♦ 214-353-1417
President: Peter O'Grady
Vice President/Marketing: William H. Gossell
Services: Underwriters providing worldwide facilities for all forms of aviation insurance.

Avio Sales & Service Corp.
P.O. Box 374
Holmdel, NJ 07733
☎ 201-671-0873 ■ 756483
President: Lawrence G. Smith
Services: Manufacturers' rep (sales) for aircraft components. Distributors of aircraft components and complete line of cabin amenities and expendables.

Aviotex/TABS
3158 Redhill Avenue
Suite 270
Costa Mesa, CA 92626
☎ 714-557-9210 ♦ 714-557-4119
Chairman of the Board/CEO:
Pascal Mahvi
President: Willy Kraiem
Vice-President of Marketing:
M.P. ("Yancey") Bissonnette
Services: TABS - Total Aviation Briefing Service. Color graphic weather briefing and flight planning service.

B & A Leasing Corp.
175 County Street
Lakeville, MA 02347
☎ 617-947-8351
President: Robert Lothrop
Vice President/Marketing & Sales:
Allen McKim
Public Relations: Joan Lothrop
Chief Pilot: Russ Johnson
Services: B & A Leasing Corp. services corporate/private (part 91) helicopters. Also, serves as a flight/ground training school for R22's and B206's.

B & D Instruments and Avionics, Inc.
209 W. Main Street
Valley Center, KS 67147
☎ 316-755-1223 ■ 437067
President: Howard P. Botts
Vice President/Marketing: David D. Dahl
General Manager: John K. Nims
Sales Manager: Dennis Snyder
Services: Manufacture true airspeed computers with cockpit and cabin digital displays, aircraft engine instruments, aircraft ordinance signs and utility lights. Manufacture air data computers.

Baker Electronics, Inc.
1734 Northgate Boulevard
Sarasota, FL 33580
☎ 813-355-7625 ■ 803720 ♦ 813-355-9241
President: E.E. Baker
Vice President/Marketing:
Eugene A. Sway
Assistant Director/Marketing:
Robert Duffield
Services: Manufacturer of aircraft pilot and cabin audio systems, includes passenger briefing systems and stereo/chime/page systems.

Barfield Instrument Corp.
4101 N.W. 29th Street
Miami, FL 33142
☎ 305-871-3900 ■ 518808
Chief Executive Officer: J.W. Barfield
President: Preston Barfield
Vice President, Service: Neil Cole
Branch Manager, Atlanta Office:
Ernie Kennemore
Technical Services/Atlanta, GA:
Mike Hiett
Services: A/C instrument overhaul & exchange service. Manufacturer of ground support test equipment.

Batch Air Universal, Inc.
7455 N.W. 41st Street
Miami, FL 33166
☎ 305-593-0411 ■ 80-7104 ♦ 305-593-5106
President: Ed Kelley
Vice President/Chief Operating Officer:
Jerry McBeth
Director of Sales: Bill Walker, Jr.
Director of Marketing: John Lowe
Services: Repair and overhaul facility for the PT6T (Twin Pak) engines and related accessories.

Bayly, Martin & Fay, Inc.
841 Chestnut Street, Suite 340
Philadelphia, PA 19107
☎ 215-923-7300 ■ 83-4567 ♦ 215-351-0723
Vice President: Anne B. Salemmo
Services: All forms of aviation insurance.

Bayly Martin & Fay of Washington, Inc.
101 Stewart Street
Suite 700
Seattle, WA 98101-1081
☎ 206-441-1400 ■ 68-38028 ♦ 206-443-9411
President: Anthony H. Cowan
Aviation Production: Michael Weaver
Assistant Vice President: Nita Marchant
Account Assistant/Marketing: Kathy Long
Services: International aviation insurance brokers. We specialize in insuring commercial helicopter operators.

Beaufort Air-Sea Equipment Limited
Beaufort Road
Birkenhead
Merseyside, L41 1HQ, England
☎ 051-652-9151 ■ 629478 ♦ 051-653-6639
President: A. Thomson
Vice President/Marketing: M.J. Corbett
Export Manager: P. Stavropoulos
Services: Designer and manufacturer of safety and survival equipment including liferafts, lifevests, and immersion suits.

Bell Helicopter Textron Inc.
P.O. Box 482
Fort Worth, TX 76101
☎ 817-280-2011 ■ 758229 ♦ 817-280-2321
President: L.M. (Jack) Horner
Senior V.P., Corporate Relations:
Dwayne K. Jose
Senior V.P., Commercial Marketing:
Gainor J. Lindsey
V.P., Commercial Marketing:
James A. Hamilton
Director, Public Affairs:
Carl L. Harris
Director, Safety & Certification:
Paul R. Powers
Chief of Training: Loren Doughty
Services: Rotary wing aircraft manufacturer and sale of new and used helicopters.

Bendix Aerospace
2107 W. Sample Street
South Bend, IN 46619
☎ 219-234-4135 ■ 710-955-0903 ♦ 219-232-0441
President, Bendix Aerospace:
William C. Purple
President, Bendix Aircraft Systems Co.:
Frank M. Adams
V.P. Marketing, Bendix Aircraft Systems Co.:
Robert A. Stoltz
Director Product Support, Bendix Aircraft:
Roland T. Zapata
Director Communications: Robert Bishop
Services: Bendix Aerospace supplies a broad range of sophisticated systems, subsystems, and components to military, air transport, general aviation aircraft and industrial markets.

Bendix/King
General Aviation Avionics Division
400 N. Rogers Road
Olathe, KS 66062-1212
☎ 913-782-0400 ■ 42299 ♦ 913-764-5847
President/Chief Executive Officer:
Fred Wenninger
Vice President/General Manager:
R. Craig Christie
Director, Domestic Marketing: Dan Walker
Vice President/Engineering: Gary Burrell
O.E.M. Sales Manager: Pat Mannix
Manager/Advertising: Kevin P. O'Hara
Services: Design, manufacture, distribute the most complete line of aircraft electronics, from simple transceivers to sophisticated EFIS systems.

BizJet:
16359 Hemlock Street
Suite One
Fountain Valley, CA 92708
☎ 714-839-0980
Publisher: Charles E. Durham, Jr.
Services: BizJet: is the management magazine for corporate aviation executives, and flight and management teams. (Current circulation now numbers over 25,000).

The BKM Company
P.O. Box 7001
Dallas, TX 75209

☎ 214-350-8955 ■ 734009 ♦ 214-368-2506
President: Ila Moses
Vice President: Bruce Weatherford
Sales: Chris Nicholson
Services: Manufacturer/distributor of voice synthesizers.

Boeing Helicopter Company
P.O. Box 16858
Philadelphia, PA 19142
☎ 215-591-2121 ■ 845205 ♦ 215-591-2701
President: Donald R. Chestnut
Director/Marketing: John Hayden
V.P./Customer Support & Business Dev.:
William P. Jones
Vice President/JPO Program: C.W. Ellis
Vice President/JVX Program: Richard Grant
Vice President/Engineering: Ken Grina
Services: Helicopter manufacturer.

Borgess Inflight Medical Service
1521 Gull Road
Kalamazoo, MI 49001
☎ 616-383-7145
President/Borgess Management Services:
Steve Mitchell
Administrative Director/Borgess Inflight:
Deborah S. Briggs
Chief Pilot/Borgess Inflight Medical Svc.:
Craig Curtis
Services: Borgess Inflight Medical service is an emergency air medical transport helicopter service based at Borgess Medical Center in Kalamzaoo, Michigan.

Boston Heliport, Inc.
31 Fargo Street
Boston, MA 02127
☎ 617-482-4501 ■ 94-0390
President: Robert Coyne
V.P. of Operations/Heliport Manager:
Frances Flaherty
V.P. Sales/Marketing: Neil F. Fitzpatrick
Services: Full commercial heliport, Jet-A fueling, hangar storage, parking, pilot/passenger lounge, five minutes to Boston's downtown area.

Bow Rotors
Division of Bow Properties Inc.
P.O. Box 4054
Lancaster, CA 93539-4054
☎ 805-942-5770 ■ 322316
President: Ian Bowker
Secretary-Treasurer: Mindy J. Putnam
Services: Helicopter consultants. Leasing, brokering and component locator services. Additional phone number is 818-997-1077

Brackett Aircraft Co., Inc.
7045 Flightline Drive
Kingman, AZ 86401
☎ 602-757-4005
President: Robert R. Brackett
Vice President, Marketing/Sales:
Rex C. Sagely
Services: Brackett Aircraft manufactures external drop hooks and platforms, helicopter movers, engine filers, and dual ground handling wheels for Jet Rangers.

Breeze-Eastern
Division of Transtechnology Corp.
700 Liberty Avenue
Union, NJ 07083
☎ 201-686-4000 ■ 138212
President: Ralph Hutchins
Vice President/General Manager:
Gene Foley
Vice President Marketing/Sales:
Larry O'Shaughnessy
Sales/Marketing Supervisor:
Zoltan J. Varsanyi
Services: Manufacturer of aircraft accessories, winches, hoists, air personnel & cargo rescue hoists, gear boxes, antenna drives, tie downs, release hooks, actuators & missile launchers.

Bristol Aerospace Limited
P.O. Box 874
Winnipeg, MB, R3C 2S4, Canada
☎ 204-775-8331 ■ 07-57774 ♦ 204-885-3195
President: J. A. Bowden
Vice President/Marketing: Keith F. Burrows
Vice President/Operations: W. A. Bergman
Marketing Manager: Robert R. Dungey
Services: Repair and overhaul of rotary wing aircraft. Manufacturer and distributor of wire strike protection system-helo transmission test-composites.

BVR, Inc.
P.O. Box 6336
Rockford, IL 61125
☎ 815-874-2471 ■ 25-7332 ♦ 815-874-4415
President/CEO: Roger G. Glavin
Vice President/Sales: Charles E. Alberts
V.P. Engineering: Charles Schiferl
Secretary & Treasurer: E.L. Madru
Services: Manufacturer of ADI, HSI, BDHI, RMI, CDI, and ADF's.

C.E. Heath & Co. (Aviation) Ltd.
150 Minories
London, EC3N 1NR, England
☎ 01-488-2488 ■ 8813001
Executive Director: R. Marsh
Services: Insurance brokers.

California Helicopter International
2935 Golf Course Drive
Ventura, CA 93003-7604
☎ 805-644-5800 ■ 6831165 ♦ 805-644-5132
President: Gary Podolny
Executive V.P. Marketing:
Harry R. Smith
Vice President/General Manager:
W.E. Jake Dangle
Services: Airframe remanufacturing, conversion and overhaul/repair station (FAA certified).

Camp Systems, Inc.
Long Island MacArthur Airport
Ronkonkoma, NY 11779
☎ 516-588-3200 ■ 14-4577 ♦ 516-588-3294
President: Daniel J. Ryan
Executive Vice President:
Wayne G. Hoppner
Vice President/Operations:
Anthony F. Costa
Vice President/Sales & Service:
Robert B. Leonard
Services: Computerized aircraft maintenance programs: batch processed (CAMP), standalone turnkey (CAMP/DISPATCH) and hosted mainframe (LINK).

Canadian Aviation Safety Board
P.O. Box 9120
Alta Vista Terminal
Ottawa, ON, K1G 3T8, Canada
☎ 819-994-8024 ■ 053-4487 ♦ 819-997-2239
Chairman: Bernard M. Deschenes
Executive Director: Ken Johnson
Director, Investigations:
Tom P. Hinton
Director, Safety Programs:
W. Tucker
Director, Safety Engineering:
Ron Hayman
Superintendent, Investigation Operations:
Peter Boag
Services: The Canadian Aviation Safety Board is the agency responsible for investigating civil aircraft accidents and incidents in Canada.

Canadian Marconi Company
Avionics Division
2442 Trenton Avenue
Box 16
Montreal, PQ, H3P 1Y9, Canada
☎ 514-341-7630 ■ 05827822
V.P. Avionics Division: L. Leveille
Group Mgr., Commercial Avionics:
G. Gibbs
Mktg. Mgr., Commercial Avionics:
H. Schlachta
Manager, Marketing Services:
Roger Hart
Services: Design, manufacture and marketing of avionics products and ground-based navaids: (MLS,ILS,VOS,DVOR).

Carter Engineering Co., Inc.
232 S. Glasgow Avenue
Inglewood, CA 90301
☎ 213-649-0111 ■ 4979680
President: G.W. Carter
Director of Marketing: C.R. Wilson
Chief Engineer: George Leventis
Services: Manufacturer & distributor: headsets, helmets, microphones, audio mixer systems, airborne searchlights and PA/siren units.

Casey Copter Accessories Ltd.
P.O. Box 121
Montreal AMF
Dorval, PQ, H4Y 1A5, Canada
☎ 514-636-6155 ■ 05-821574
President: Anthony J. Casey
Vice President/Marketing: Michael J. Casey
Services: Manufacturer of Casey shroud heaters and air conditioners for Bell 206, Hughes 500, MBB (B-105's) and Agusta 109's.

Castleberry Instruments & Avionics
817 Dessau Road
Austin, TX 78753
☎ 512-251-3441 ■ 767130
President: Don R. Castleberry
General Manager: D. Bigbee
Marketing Manager: Russell Mullins
Manager, Rotory-Wing: Michael J. Morgan
Services: New/exchange sales, overhaul/repair/certification of rotor-wing & fixed-wing aircraft instruments.

Chadwick-Helmuth Co.
4601 N. Arden Drive
El Monte, CA 91731
☎ 818-575-6161 ■ 194271
President: James Chadwick
Field Services Engineer: Roger Fick
Services: Track & balance equipment used on helicopter and propeller rotors. Manufacturer of VIBREX.

Champion Spark Plug Company
P.O. Box 910
Toledo, OH 43661
☎ 419-535-2463 ■ 212532 ♦ 419-535-2365
Manager, Aviation Marketing Services:
J.T. Quinn
Services: Manufacturers of aviation spark plugs, jet igniters and oil filters.

Chandler Evans
Control System Division
1 Charter Oak Boulevard
West Hartford, CT 06101
☎ 203-236-0651 ■ 99285
President: Jack O. Nash
Vice President/Marketing: John M. Maljanian
Vice President/Manufacturing: D.W. Gilchrist
Manager/Product Support: F. DeFronzo
Services: A leading manufacturer of helicopter jet engine fuel controls, fuel pumps and missle flight controls.

Chaparral Insurance Services
44-100 Monterey Avenue
Suite 208
Palm Desert, CA 92260
☎ 619-341-3173 ■ 181185 ♦ 619-341-2885
Executive Vice President: Beverly Gassen
Services: Aircraft insurance specializing in helicopters.

Chase, Rotchford, Drukker & Bogust
700 South Flower Street
Suite 500
Los Angeles, CA 90017
☎ 213-626-8711
Partner: Vincent Fish
Services: Aviation defense law firm.

Chelton, Inc.
P.O. Box 976
Lewisville, TX 75067
☎ 214-221-1783 ■ 795555
President: Geoff Cooper
Executive Vice-President:
William J. Garlough
Vice-President: Michael S. Wilkerson
Services: Manufacturers of antennas, homing systems, static dischargers and test equipment.

Chopper Shopper/Aero Trader Magazine
P.O. Box 9003
Clearwater, FL 33518-9003
☎ 1-800-237-8711
President: Stuart Arnold
V.P., Marketing/Sales: Lou Terasi
Department Manager: Gary M. Krebs
Services: Chopper Shopper, worldwide listings for buying, selling or trading helicopters and related equipment.

Chromalloy Division-Oklahoma
1720 National Boulevard
P.O. Box 10699
Midwest City, OK 73034
☎ 405-732-6811 ■ 748599
Director, Technology: John Zelahy
V.P. Marketing & Technology:
Daniel R. Stoller
Manager of Commercial Operations:
James R. Shaw
Manager, Customer Service: Jack R. Rumsey
Services: Manufacture, overhaul and repair of turbine engine components.

David Clark Company Inc.
360 Franklin Street
Worcester, MA 01613-0155
☎ 617-756-6216 ■ 920482 ♦ 617-753-5827
President: John E. Flagg
Vice President: Darald R. Libby
General Sales Manager: Robert J. Murphy
Aviation Products Manager:
Ronald F. Premo
Services: Manufacturer of noise attenuating headsets with noise cancelling microphones and voice activated intercoms.

CMI Aircraft Corporation
2600 Telegraph Road
P.O. Box 2600
Bloomfield Hills, MI 48303
☎ 313-456-0000 ■ 499-4188 ♦ 313-857-3936
Director of Marketing: Louis C. Seno
Services: CMI specializes in aircraft leasing and financing.

Collins Avionics
Rockwell International
400 Collins Road, N.E.
Cedar Rapids, IA 52498
☎ 319-395-2978 ■ 464421
President, Rockwell Int'l: Donald R. Beall
President, Collins: James L. Churchill
Exhibits/Marketing: Raymond A. Walsh
Services: Manufacturer of flight control, navigation and communication systems.

Columbine Helicopter Maintenance
P.O. Box 240
Lewis, CO 81327
☎ 303-882-4028
Owner: Walter J. Harris, Jr.
Services: Hughes 500 series repair/Allison 250 series overhaul and repair.

MISS
NEW ORLEANS

And you'll miss the most important gathering in the helicopter industry, when HAI holds the 1989 Annual Meeting and Industry Exposition, January 15-17 in New Orleans, LA. If you are a helicopter operator, you'll miss important advances in helicopter products, a chance to improve managerial operational skills at HAI courses and seminars, and an opportunity to for on-the-spot comparison shopping. If you are an OEM or supplier to the helicopter industry, you will miss the most concentrated gathering of qualified buyers anywhere.

For more information on the 1989 Annual Meeting and Industry Exposition, call HAI headquarters 703-683-4646

Whether you are an operator or supplier, you won't want to Miss New Orleans

Helicopter Association International

1619 Duke St., Alexandria, VA 22314
703/683-4646
FAX: 703/683-4745
Telex: 89-615

Composite Technology, Inc.
P.O. Box 8219
Stockton, CA 95208
☎ 209-466-4285 ■ 359435 ♦ 209-466-5597
President: Timothy J. Hachman
Vice President, Operations: Dana H. Kerrick
Services: Repair, overhaul, sales & rental of main and tail rotor blades. Factory and FAA authorized service center for composite and metal blades.

Computer Training Systems, Inc.
P.O. Box 8500
Tenafly, NJ 07670
☎ 201-567-5639
President: James Boots
Executive Vice President: Richard Gilson
Services: Helicopter computerized pilot training.

Computing Technologies for Aviation (CTA)
P.O. Box 7624
Charlottesville, VA 22906
☎ 804-971-7624
President: Neil Armstrong
Vice-President: Fred Powell
Maintenance Coordinator:
Trish Snopkowski
Services: Computing services: scheduling, reports, maintenance, airline interface, weather and flight plan interface in house.

Consolidated Aircraft Supply Company, Inc.
55 Raynor Avenue
Ronkonkoma, NY 11779
☎ 516-981-7700 ■ 510-222-0279 ♦
516-981-77067
President: Orie Matza
Vice President: Steven Matza
Sales Manager (Florida & Southeast):
Peter Faillace
Services: Overhaul, repair and sales of aircraft electrical, electronic, hydraulic and fuel accessories.

Consolidated Aircraft Supply Company, Inc.
6225 Coldwater Canyon
North Hollywood, CA 91606
☎ 818-984-0896
Sales Manager/California & Southwest:
Morey Ross
Services: Sales office.

Coopers Service Corp.
2722 Burbank Street
Dallas, TX 75235
☎ 214-352-9751 ■ 73-0226
President: Alan Cooper
Vice President/Sales & Marketing:
Dean Webster
Vice President/Public Relations: Scott Cooper
General Manager: Carolyn Herrera
Services: Distributor of components and spare parts.

Costruzioni Aeronautiche Giovanni Agusta S.p.A.
via Sicilia 43
Rome, 00817, Italy
☎ 0331 220478 ■ 614398
Chairman of the Board: Raffaelo Teti
Vice President/Helicopter Division (Milan):
Bruno Lovera
Vice President: Pietro Fascione
Services: Manufacturer of Agusta designed helicopter. Sikorsky, Bell and Boeing Vertol overhaul and repair.

Dade County Aviation Department
P.O. Box 592075
Miami International Airport
Miami, FL 33159
☎ 305-871-7077 ■ 810-848-4781
Director: Richard H. Judy
Deputy Director: George E. Spofford
Assistant Director/Operations: R.D. Gunther
Public Service Chief: Amaury Zuriarrian
Services: Airport/Heliport Operator.

Dale & Company Ltd.
1140 de Maisonneuve Blvd., West
Montreal, PQ, H3A 3H1, Canada
☎ 514-282-1112 ■ 055-60657 ♦ 514-282-1364
Vice President/Transportation Dept.:
Jacques Rene de Cotret
Vice President/Aviation Division:
Alan Mills
Services: Aviation insurance brokerage company.

Daniel Systems, Inc.
4391 N.W. 150 Street - #A
Opa Locka Airport
Opa Locka, FL 33054-2327
☎ 305-685-6286 ♦ 305-685-0041
President: Raymond Shinkle
Vice President, Marketing: Al Fernandez
Services: Computerized aviation systems covering helicopter maintenance, spares inventory, flight logs and scheduling.

Daniels Manufacturing Corp.
6103 Anno Avenue
Orlando, FL 32809
☎ 305-855-6161 ■ 564321 ♦ 305-855-6884
President: George G. Daniels
Sales/Marketing Manager:
Dave Kelly
Logistics Support Manager:
Gary Moore
Services: Connector maintenance systems, ground support equipment, hand and tool kits.

Dayton-Granger, Inc.
3299 S.W. 9th Avenue
Fort Lauderdale, FL 33315
☎ 305-463-3451 ■ 510-955-9760 ♦ 305-761-3172
President: J.D. Cline
Chairman of the Board: G.D. Cline
Director of Contracts: Rich Constantino
Southeast Regional Manager: Michael B. Urie
Services: Manufacturer of airborne antenna systems, electrostatic protection equipment, lighting protection devices and portable survival radios.

Defense News
6883 Commercial Drive
Springfield, VA 22159-0100
☎ 703-642-7330
Publisher: Jack Kerrigan
Editor: Richard Barnard
Trade Show Manager: Melissa Gunning
Services: Aviation defense related publications.

Department of Ports, International Trade & Commerce
Battery Maritime Building
New York, NY 10004
☎ 212-806-6847 ■ 645010 ♦ 212-809-7983
Commissioner: Michael P. Huerta
Deputy Commissioner: Anthony Riccio
Aviation Coordinator: Steven M. Urlass
Aviation Coordinator: Joseph A. Strein
Services: Division of the city government of New York which specializes in heliport planning and consulting.

DeVore Aviation Corporation
6104B Kircher Boulevard, N.E.
Albuquerque, NM 87109
☎ 505-345-8713 ■ 660436
President: Gilbert DeVore
Vice President: Arnold Robinson
Director, Marketing: Jonathan Bent
Marketing Representative: Richard Carr
Services: Manufacture tel-tail rotor lights, forward facing recognition lights and HELI-PLASI visual approach aid system. System design consulting.

Dorne & Margolin, Inc.
2950 Veterans Memorial Highway
Bohemia, NY 11716
☎ 516-585-4000 ■ 5102286502
President: Mason Carter
Vice President, Marketing: Vincent Marotti
Vice President, Engineering: Frank Kellerman
Services: Design, manufacture, and factory service of airborne communication, satcom, navigation antennas, homing systems and ELT's.

Downing Electronics, Inc.
10218 Donna Avenue
Northridge, CA 91324
☎ 818-360-3791
President: James R. Downing
Services: Manufacturer of heliport lighting systems and prefabricated heliports.

E.H. Industries, Inc.
1735 Jefferson Davis Highway
Suite 805
Arlington, VA 22202
☎ 703-486-8000 ■ 901152 ♦ 703-685-0063
Chairman: Enrico M. Striano
President: Robert Gladwell
Manager Operational Development:
Dr. John Leverton
Services: Market development/sales of EH101 Advanced Technology Rotorcraft produced jointly by Augusta S.p.A. and Westland Ltd.

Eaglerock Aviation
Insurance Managers Inc.
280 Corporate Center
5 Becker Farm Road
Roseland, NJ 07068-1778
☎ 201-994-2225 ■ 136296 ♦ 201-535-8421
President: John O. Eshbaugh, Jr.
Vice President: John T. Matthews
Services: Aviation insurance.

Eberhard Klemens
P.O. Box 2228
Naperville, IL 60566
☎ 312-416-1999
Owner: E. Klemens
Services: Lessor of helicopters: (206L/1,300C/1).

EG & G Rotron - Custom Division
7-9 Hasbrouck Lane
Woodstock, NY 12498
☎ 914-679-2401
President: Dan Riley
Product Manager: Tom Gates
Manager, Marketing: Peter Stewart
Manager, Marketing Communications:
Peter W. Rakov
Services: Fans and blowers for electronics cooling and environmental ventilation.

Electronic Display Systems Inc.
2321 Topaz Drive
Hatfield, PA 19440
☎ 215-822-6090 ■ 84-6113
President: Derick Jones
Director, Marketing: Frank LeVien
Director, Engineering: Neil Mazurek
Marketing Assistant:
Susan Steinley Bockmeyer
Services: Manufacture dichroic/twisted nematic liquid crystal displays and modules for aerospace markets.

Ellason Weather Radar
Ellason Avionics, Inc.
739 Spirit of St. Louis Blvd.
Chesterfield, MO 63017
☎ 314-532-3031
President: Bill Ellason
Marketing Manager: Arnold Lane
Services: Manufactures ground-based weather radar.

Embry-Riddle Aeronautical University
Center for Independent Studies
Daytona Beach, FL 32014
☎ 904-239-6397
President/CEO:
Kenneth L. Tallman
Director, Independent Studies:
Thomas W. Pettit
V.P./University Relations:
James Harman
V.P./Chancellor-Int'l Campus:
Charles S. Williams
Services: Receive college credit for your aviation experiences and earn an accredited Embry-Riddle Bachelor degree in the privacy of your own home through independent study.

Enstrom Helicopter Corporation
Twin County Airport
P.O. Box 277
Menominee, MI 49858
☎ 906-863-9971 ■ 261912 ♦ 906-863-6821
President & CEO: Robert M. Tuttle
Vice President Sales & Service:
Richard E. Loynachan
Vice President, Operations: John Hansen
Vice President, Engineering: Robert L. Jenny
Services: Manufacture three-place turbocharged piston-engined helicopters: models F-28F and 280FX.

Essex Industries, Inc.
7700 Gravios Avenue
St. Louis, MO 63123
☎ 314-832-4500
President: Sidney Guller
Vice President/Operations: Keith Guller
Sales Manager: Mitchell D. Waldman
Public Relations: Elizabeth Estes
Services: Essex designs, develops and manufactures multi-function pilot grips, hydraulic neumatic and fuel valves, flame arrestors, and various other components for the engine and aircraft industry.

Eventide Avionics
One Alsan Way
Little Ferry, NJ 07643
☎ 201-641-1200 ■ 710-991-8715
President: Richard Factor
Director of Marketing: Joe Shapiro
Senior Engineer: John Strowe
Marketing Manager: Beth Babich
Avionics Products Manager: Terry Parsons
Services: Eventide Avionics manufactures the ARGUS 5000--the moving Map tm. which provides a dynamic, graphic presentation of the aircraft's position within the complex airspace system.

Execaire, Inc.
University Place
124 Mt. Auburn Street, Suite 550
Cambridge, MA 02138
☎ 617-536-8717
President: Mitchell Bronfman
Vice President: Michael S. Leavitt
Services: Aircraft management, scheduling and maintenance software systems.

Executive Instruments, Inc.
P.O. Box 216
4141 Lindberg Drive
Addison, TX 75001
☎ 214-239-0231 ■ 73368
Vice President: Wayne Holmes
Operations Manager: James R. Garrett
Services: Certified repair facility for instruments.

FAPA - Future Aviation
Professionals of America
4291-J Memorial Drive
Atlanta, GA 30032
☎ 404-294-0026 ■ 494-4313 ♦ 404-297-0995
President: Louis Smith
Vice President, Marketing: Kit Darby
JET JOBS Referral Systems Manager:
Charles Stalnaker
Services: FAPA is a pilot/flight attendant/mechanic career information service. FAPA also offers an aviation maintenance resume service and job referral system. The toll-free number is 1-800-JET-JOBS.

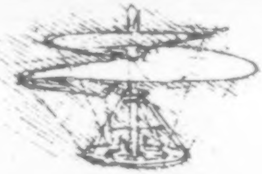
Facet Enterprises, Inc.
Fluid Technology Group
8439 Triad Drive
Greensboro, NC 27409-9621
☎ 919-668-4444 ■ 510-922-7331 ♦ 919-668-4452
President/General Manager: Vincent Riley
Director, Marketing: James F. Frahm
Manager, Advertising & Promotions:
Dianne Vander Beek
Product Certification Manager:
Glenn Pendley
Services: Manufacturer of filters for hydraulics, lube oil filters, fuel filters, ground support, refueling, transmission filters, and acoustic media.

FFV Maintenance
Aircraft Systems Division
S-5882 Linkoping, Sweden
☎ 4613109100 ■ 50026 ♦ 4613298449
Vice-President, Aircraft Systems Division:
Carl-Erik Johansson
Technical Manager, Aircraft: Hans Molander
Services: Repair, overhaul & modifications of helicopter airframes, hydraulic & fuel systems, dynamic components, rotor blades, radio-radar navigation, instruments & engines.

FitzWright Survival Systems Inc.
150-5811 Cedarbridge Way
Richmond, BC, V6X 2A8, Canada
☎ 604-270-2313 ■ 04-357705 ♦ 604-270-6519
President: Jim Bradley
Research & Development Director:
Peter Rowe
Services: Sales and service of survival and rescue equipment.

FLIR Systems, Inc.
16505 S.W. 72nd Avenue
Portland, OR 97224
☎ 503-684-3731 ■ 510-101-0797
President/CEO: Clark Wingert
V.P., Marketing/Sales: William Shaw
Manager, International Sales:
Frederick Donohue
Domestic Sales Manager: John Speer
Services: FSI manufactures a high performance dual field of view airborne thermal imaging system for helicopter applications.

Flight Accessory Services
A Division of Hawker Pacific Inc.
11310 Sherman Way
Sun Valley, CA 91352
☎ 213-875-2930 ■ 69-8154 ♦ 818-765-8073
President/General Manager: Robert Wilson
V.P. - Marketing & Sales: Mike Kenzel
V.P. - Operations: Richard Thompson



These people have contributed to the Helicopter Foundation International. Have you?

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Richard A. White, II

V.P. - Finance & Administration: Jeff Belzer
Sales Manager, Landing Gear: Rick Smicenski
Sales Manager: Roger Rusk
Services: Overhaul and repair of hydraulic flight controls and helicopter landing gear.

Flight Components Service Corp.
2722 Burbank Street
Dallas, TX 75235
☎ 214-352-9751 ■ 73-0226
President: Greg L. Cooper
Vice President/Sales & Marketing:
Alan Cooper
Vice President/Public Relations:
Louis Walker
General Manager: Carolyn Herrera
Services: Repair and overhaul of hydraulic, electric, and fuel components for rotary and fixed wing aircraft. (FAA Repair Station #3662)

Flight International Magazine
Reed Business Publishing
205 E. 42nd Street
New York, NY 10017
☎ 212-867-2080 ■ 238327 ♦ 212-687-6604
U.S. Regional Sales Manager:
Clive Richardson
Services: Publishing.

Flight Line Manager
3100 Airway - Suite 133
Costa Mesa, CA 92626
☎ 714-545-2000
President: Michael P. Penrose
Services: Flight Line Manager provides software and hardware for aircraft flight line operations such as maintenance and inventory control.

Flight Suits, Ltd.
1675-D Pioneer Way
El Cajon, CA 92020
☎ 619-440-6976 ■ 295478
President: James Wegge
Services: Manufacture flight suits, jackets, gloves, helmets. SPH-4 helmets and parts available.

FlightSafety International
Marine Air Terminal
LaGuardia Airport
Flushing, NY 11371
☎ 718-565-4100 ■ 667573UW ♦ 718-565-4134
President: A.L. Ueltschi
Executive Vice President: Bruce N. Whitman
Vice President, Marketing: James S. Waugh
Vice-President Government Affairs:
Al Gleske
Services: Pilot and mechanic training school.

Fluorocarbon Technologies Inc.
7040-A Bembe Beach Road
Annapolis, MD 21403
☎ 301-268-6451 ■ 386950 FTCA
Chief Executive Officer: Robert Young
President/Chief Operating Officer:
Richard Hargrove
Director of Marketing: Michael O'Sullivan
Services: Developers of high performing fluorocarbon penetrating lubricants for industrial, aviation, and marine use. Drag and debris reduction coatings.

Flying Magazine (CBS)
1515 Broadway - 10th Floor
New York, NY 10036
☎ 212-719-6951
Assoc. Publisher/Advertising:
Dick Koenig
Editor: Richard Collins
Publisher: Jay Durfee
Marketing Director: Pat Luebke
Services: Publish Flying Magazine.

Foster Air Data Systems,Inc.
7020 Huntley Road
Columbus, OH 43229
☎ 614-888-9502 ■ 5101005279
President: Mike Smyser
Vice President, Sales: Dennis Schmidt
Services: Manufacturer of area and long range navigation systems; and multi- station tracking DME/TACANS.

Foxtronics, Inc.
6614 Waddell Avenue
Dallas, TX 75235
☎ 214-358-4425 ■ 730647 ♦ 214-358-1519
President: Carl H. Fox
Executive Vice President:
Stephen W. Williams
Vice President Engineering: John Nixon
Secretary/Treasurer: Kay Owens
Services: Avionics repair, GPU manufacturer and repair, and consultants.

Frasca International
606 S. Neil Street
Champaign, IL 61820
☎ 217-359-3951 ■ 206549
President: Rudy A. Frasca
Vice President, Marketing: John B. Huismann
Project Director: John A. Frasca
Project Director: L. Martin Hendrickson
Services: Manufacturer of rotary and fixed-wing flight simulators.

Fred S. James & Co. of Georgia Inc.
500 Atlanta Financial Center
3333 Peachtree Road, N.E., #500
Atlanta, GA 30326
☎ 404-237-8444 ■ 804403
President/Aviation Division:
Charles Botts
Assistant Vice-President/Aviation:
Jeffrey Zito
Marketing Executive/Aviation:
Nancy P. Gratzer
Services: Insurance brokerage and consulting.

Fujinon Inc.
10 High Point Drive
Wayne, NJ 07470
☎ 201-633-5600 ■ 6818115 ♦ 201-633-5216
President/CEO: Hitoshi Kawamura
G.M., Special Products: Charles Y. Nemoto
Marketing Manager: J. Brooks

Services: Gyrostablized optic binoculars for air, sea, and land. 10 x 40 and 14 x 40 power. GSA contract FSCM 64991.

G.L. Capps Company, Inc.
P.O. Box 18190
Corpus Christi, TX 78418
☎ 512-851-1290 ■ 754861
President: Gary Capps
Chief Inspector/V.P. Marketing/Sales:
Bill Munson
Services: Avco Lycoming Turbine engine overhaul. Custom design maintenance and overhaul computer software.

Gables Engineering, Inc.
P.O. Box 140880
Coral Gables, FL 33114-0880
☎ 305-442-2578 ■ 441107
President: Victor E. Clarke
Vice President/Sales & Marketing:
Don J. Brown
Sales Representative: Jonathan Hahn
Services: Designers and manufacturers of digital and analog audio systems, single and multifunction frequency control systems, miscellaneous control and junction boxes.

The Garrett Corporation
9851 Sepulveda Boulevard
Los Angeles, CA 90009
☎ 213-776-1010 ■ 664684 ♦ 213-417-6625
President: Roy H. Ekrom
Senior V.P., Sales & Marketing:
Frederick G. Deragon
Vice President/Engineering:
John Mason
Director, Corporate Communications:
Dave Franson
Manager, Corporate/Public Relations:
John Meyer
Corporate Manager, Exhibits:
Richard E. Callison
Manager, Corporate Advertising:
Jolene McClenaghan
Services: Manufacturer, turboshaft, turbofan & turboprop engines. APV's, cockpit & cabin pressurization & environmental control systems for rotary & fixed wing aircraft; pneumatic & hydraulic actuation systems.

General Electric Company
1000 Western Avenue
Lynn, MA 01910
☎ 617-594-7617 ■ 6817065
General Manager: L.A. Bevilacqua
Vice President/Government Relations:
William J. Crawford
Manager, Press Relations: Robert Salvucci
Services: Development and manufacture of helicopter engines for military and commercial use.

Genisco Technology Corporation
Transducer Products Division
650 Easy Street
Simi, CA 93065
☎ 805-581-3985 ■ 910-494-4782 ♦ 805-583-1526
General Manager: Jerry Mihok
Aviation Products Manager: Felix H. Medak
Marketing Manager: John E. Smith
Services: Manufacturer of accelerometers and pressure transducers used in hydraulic, brake, oxygen and fuel systems. Authorized repair station for parts of our manufacture.

Georgetown Aircraft Services
15 Nanticoke Avenue - Rt. 5
Georgetown, DE 19947
☎ 302-856-7333 ■ 508850
Operations Manager: Salvatore Scarfi
Services: Aircraft interiors, exteriors, avionics, modifications and completions.

The GIC Group
P.O. Box 1291
15 River Street
New Rochelle, NY 10801
☎ 914-576-2702
President: Stephen G. Glatzer
Vice President: Joseph De Lorenzo
Assistant to the President: J. Goodman
Services: Manufacturers of emergency locator transmitters; direction finders; "Super Sensitive Receivers"; voltmeters; replacement batteries for ELTs.

Global-Wulfsberg Systems
2144 Michelson Drive
Irvine, CA 92715
☎ 714-851-0119 ■ 68-1340
Vice President & General Manager:
Gary Glynn
Vice President/Sales & Marketing:
H. Jack Hanslip
Manager/Marketing Services:
R. Scott Mackey
Services: Manufacturer of airborne radiotelephones, VHF AM, VHF & UHF FM communications and VHF AM base stations.

Godfrey Howden
480 Montreal-Toronto Blvd.
Lachine, PQ, H8S 1B8, Canada
☎ 514-637-1122 ■ 05-821568
President/CEO: William S. Hodges
Executive Vice President: A. Dale Hunt
Marketing Manager: Andrew J. McCammon
Services: Design, manufacture, and repair and overhaul of G.S.E., aircraft heating, cooling and pressurization systems, and hydraulic and pneumatic test equipment.

Golar Metal, Inc.
Box 247
Lionville, PA 19353
☎ 215-363-5864 ■ 322233 ♦ 215-363-7259
President: Jan Hansen
Sales Manager: Gerard E. Bourgeault
Services: A lightweight, pre-engineered aluminum helideck and associated support equipment, including stairs, ramps, refuelling systems.

H.A.S. Corp.
P.O. Box 1117
Mt. Pleasant Airport
Mt. Pleasant, PA 15666
☎ 412-887-4413 ■ 847-174 ♦ 412-887-3977
President: Fred Wagner
Vice President/Marketing: Chris Hughes
Marketing Manager: Mike Kelly
Researcher: Lori Stairs
Services: Sale of pre-owned Bell helicopters. Inspection and evalution of Bell helicopters.

Frank B. Hall Aviation
3200 Wilshire Boulevard
Los Angeles, CA 90010
☎ 213-386-3700 ■ 194144
Chairman: John Cizek
Vice Chairman: William Newell
Executive Vice President:
Joseph D. Mankawich
Services: Specialists in aviation insurance of all types.

Hawker Pacific Private Limited
302 Oxford Street
East Camp - Seletar Airport
Singapore, 2879, Singapore
☎ 65-481-2100 ■ 87-23915 ♦ 65-482-1931
Manager: Brain MacDonald
Services: Repair/overhaul of Allison 250 engines (all types) and of Allied Bendix, Chandler Evans, Sundstrand and TRW fuel components. (FAA Repair Station 661-23FA).

Hawker Pacific Pty., Ltd.
4-8 Harley Crescent
Condell Park, N.S.W., 2200, Australia
☎ 02-708-8555 ■ AA121168 ♦ 02-708-1480
Managing Director: C.M. Ryland
Director: I.J. Blackie
Technical Manager: D.E. O'Neill
Sales/Service Manager: A. H. Hendry
Services: Maintenance/overhaul: rotary wing maintenance approval (D.O.A. Australia) up to 10,000KG. Allison 250, Continental & Lycoming piston engine overhaul. D.O.A. approved training school.

Hazeltine Corporation
500 Commack Road
Commack, NY 11725
☎ 516-266-5656 ■ 6852393 ♦ 516-462-6794
Executive Vice President: J.R. Colarusso
V.P./New Business Development: A.C. Brittle
V.P./Public Relations: J.W. Evans
V.P./MLS Marketing: D.L. Miller
Services: FAA and ICAO standard microwave landing systems for airports and heliports and applications where precision IFR approaches are required.

Heavylift Marketing, Inc.
7205 Corporate Center Dr., #400
(N.W. 19th Street)
Miami, FL 33126
☎ 305-591-2272 ■ 522384
Chairman of the Board: P. McGoldrick
Vice President: Alastair Macleod
Services: Represents airlines specializing in long range transport of bulky and heavy air freight. Transport systems for helicopters. Toll Free # (1-800-231-6339).

Heli-Dyne Systems Inc.
P.O. Box 18967
Fort Worth, TX 76118

☎ 817-282-9804 ■ 758619 ♦ 817-282-8329
Senior Vice President: Doug Evans
Vice President/General Manager: Gene White
Vice President, Int'l. Sales: Don Krause
Vice President, Sales: Tony Rumpel
Services: A full service helicopter completion center: FAA repair station, avionics, instruments, maintenance, overhaul, custom paint and interiors, logistics and EMS.

Heli Plex Inc.
432-B West Fork Drive
Arlington, TX 76012
☎ 817-277-9024 ■ 794979
President: Herman H. Waldrup
Vice President: Floyd E. Hathcoat
Sales Manager: Guy McLaughlin
Services: Replacement helicopter windows, helicopter design consultants, accident investigation, specialty design, maintenance tools armament subsystems.

Heli-Mart Inc.
Atlantic Aviation Center
2837 E. Spring Street
Long Beach, CA 90806
☎ 213-427-2110 ■ 653500 ♦ 213-427-2110
President: Don Nichols
Sales Manager: Ed Brown
Services: New and serviceable helicopter spare parts and accessories sales company.

Helicomb International, Inc.
6956 E. 13th Street
Tulsa, OK 74112
☎ 918-835-3999 ■ 79-6168 ♦ 918-834-4451
President: Robert R. Austin
Services: Repair and manufacture of all adhesive bonded honeycomb assemblies. Military, commercial and all models of helicopters.

Helicopter Accessory Service Inc.
7608 San Fernando Road
Sun Valley, CA 91352
☎ 818-767-2214 ■ 466273
President: Jim F. Bagge
General Manager: Jerry R. Hill
Vice President/Marketing & Sales:
John F. Bagge
Vice President/Public Relations:
Claire J. Bagge
Services: Helicopter Hydraulic servo, pump, valve, repair, overhaul, exchange, component rework, spare parts, test equipment, nondestructive testing.

Helicopter Enterprises, Inc.
313 South Second Street
P.O. Box 1486
West Memphis, AR 72301
☎ 800-643-0402 ■ 53-6462
President: Lawrence P. Klein
Vice President: B.B. (Andy) Andrews
Office Manager: Teresa Easter
Services: HEI was incorporated in January, 1975 to operate, repair and sell all makes and models of helicopters.

HELICOPTER International
75 Elm Tree Road
Locking, Weston-Super-Mare
Avon, BS24 8EL, England
☎ 0934-822524 ■ 44220 ♦ 0934-820711
Publisher/Editor: Elfan Ap Rees
Administrator/Subscriptions: Joan Probert
Deputy Editor: Claire Ap Rees
Advertising Sales: Wendy Glew
Services: Bimonthly international news magazine with regional columns for Canada, Offshore Europe, Pacific, etc. Plus fortnightly HELIDATA newsletter service.

Helicopter Leasing & Services, Inc.
4616 W. Alva Street
Tampa, FL 33614-7643
☎ 813-877-7670 ■ 526590
President: Charles W. Brammer
V.P./Marketing/Sales: William E. Roach, Jr.
V.P./Public Relations: Marty Andrews
Director of Structural Estimating & Sales:
Francis ("Andy") Andrews
Services: Authorized service and major structural repair facility for Bell, McDonnell-Douglas, Schweitzer/Hughes 300, Aerospatiale, and MBB. Authorized service facility for Aviall and Teledyne Neosho.

Helicopter Services, Inc.
State Airport
Warwick, RI 02886
☎ 401-738-4055
President: Vincent V. Colicci
Secretary/Treasurer: Jesse G. Colicci
Supervisor, Maintenance: James R. Murphy
Chief Mechanic: Gregory A. Gouvin
Services: CRS station 4392, Bell service station, authorized Airwork service center.

Helicopter Support Australia
P.O. Box 777
Kununurra, 6743, Australia
☎ 091-682-129 ■ 99873
Managing Director: John E. Clifford
Director: Peter J. Clifford
Secretary: Carolyn I. Clifford
Services: Airframe, engine, component repair and overhaul. Field servicing, Robinson service centre.

Helicopter Support, Inc.
P.O. Box 947
89 Marsh Hill Road
Orange, CT 06477
☎ 203-795-6051 ■ 963550
President: Renzo J. Pierpaoli
Executive Vice President: David Adler
Treasurer: Mona Pierpaoli
Secretary: Jeanne Summit
Services: Helicopter parts distribution and component overhaul.

Helicopter Technology Co., Inc.
P.O. Box 371515
Decatur, GA 30037-1515
☎ 404-981-7729
President/Owner: Harold Symes
Services: Provides sales, engineering for construction services to operators i.e. - Siller Bros., Inc. and Columbia Helicopters, Inc.

Helicopter Welders of Canada Ltd.
6631D Elmbridge Way
Richmond, BC, V7C 4N1, Canada
☎ 604-273-9681 ■ 04355820
President: Croft W. Wilkinson
General Manager: W.C. (Bill) Gallop
Services: Airframe repairs for Bell, Aerospatiale and Hiller helicopters. Specialized welding, exhaust systems. Jig and fixture building for commercial and military airframes.

Helilease International Inc.
699 Hogan Court - Suite 2-A
P.O. Box 7592
Incline Village, NV 89450
☎ 702-831-2800 ■ 194250
President: Bruce D. Gray
Vice President, Marketing:
Alfred T. Chisholm
Services: Leasing, financing & sales of select helicopter equipment along with consulting services to the industry.

Heliparts Express Ltd.
1 Summer Street
Providence, RI 02903
☎ 800-826-3000
President: Peggy Healy
Project Coordinator: Dirk Patriarca
Services: Heliparts Express Ltd. buys used and damaged helicopters. Also, specializes in the sale of used parts.

Heliport Consulting Services
11 West 16th Street
Linden, NJ 07036
☎ 201-862-0392
President: Raymond A. Syms
Services: Heliport development and helicopter operation consulting - feasibility, design, obtaining of appropriate certifications, expert reports and testimony, safety/operational evaluations and studies.

Heliport Systems, Inc.
A-E Division
163 Madison Avenue
Morristown, NJ 07960
☎ 201-540-0011 ■ 220883
President: William E. Davis
Vice President: Blair F. Baldwin
Engineer: Peter Matera
Services: Professional heliport site selection, zoning and engineering design with special expertise in cost-effective rooftop heliport construction, fire protection and refueling.

Helipower Service
15500 Telegraph Road - #C-21
Santa Paula, CA 93060
☎ 805-933-1371 ■ 182248
President: John K. Rains
Vice President/Operations:
Ernest P. Hutchinson
Vice President/Operations:

Carlyle T. Montgomery
Services: Helicopter turbine and component overhaul repair exchange. FAA ARS #461-94. Allison 250, Bell 206, Hughes 500, Hiller UH-12E. (24 hours/Worldwide).

Helitune Ltd.
1 Graham Road, Malvern
Worcester, WR14 1HL, England
☎ 6845-69292 ■ 335626 ♦ 6845-61153
Managing Director: C.J. Styles
Commercial Director: David A. Bloxham
Director/Engineering & Technical Support: N.E. Trigg
Technical Director: W.A. Clearwaters
Services: Rotor tracking, dynamic balancing and vibration analysis for front line service and to provide headquarters database for fleet analysis.

Helivia International
7353 South Ivy Way
Englewood, CO 80112
☎ 303-796-9343 ■ 45885
President: Barry Kaplan
Services: Specialists in international helicopter operations, leasing and sales.

Hermetic Aircraft International Corp.
100 Corporate Drive
Holtsville, NY 11742
☎ 516-758-4242 ■ 96-1329 ♦ 516-758-1428
President/Chief Executive Officer: William Brown
Executive V.P./General Manager: Louis J. Francisco
V.P., Marketing/Customer Service: Michael J. Harvey
Program Manager: Joseph Golden
Services: Warranty, overhaul & repair agency for U.S. & European manufacturers, specializing in French manufactured equipment; also sales and distribution.

Hitchcock Industries, Inc.
P.O. Box 9000
Sherman, TX 75090-0999
☎ 214-786-6000 ■ 730294
Executive Vice President: Gregory T. Hitchcock
Services: Supplier of non-ferrous castings to helicopter manufacturers.

Honeywell, Business & Commuter Aviation Systems Division
Sperry Commercial Flight Sytems
P.O. Box 2900
Phoenix, AZ 85038
☎ 602-863-8000 ■ 668419
Vice President/General Manager: P. Rauschelback
Director of Communications: E.R. Kramer
Vice President/Marketing: D. Snure
Vice President/Engineering: J. Bock
Services: Sales & service of flight control systems, airborne weather radar, and other helicopter systems.

Houston Casualty Company
13403 Northwest Freeway
Houston, TX 77040
☎ 713-462-1000 ■ 775999
Vice President: Michael J. Donovan
Vice President: William G. Halligan
Vice President: Donald O. Thomas
Vice President: James D. Hyberg
Services: Insurance.

Howell Instruments, Inc.
3479 W. Vickery Boulevard
Fort Worth, TX 76107
☎ 817-336-7411 ■ 758233
President/Overseas: Leon Becker
Chief Pilot: Paul Wheeler
Services: Manufacturer of indicators and turbine testing equipment.

HR Textron, Inc.
25200 W. Rye Canyon Road
Valencia, CA 91355-1256
☎ 805-259-4030 ■ 651492 ♦ 805-259-9622
President: R.J. Millman
Senior V.P. - HR Division: D.T. Stewart
V.P. Marketing Programs: C.V. Johansen
General Manager Product Support (HR Div.): D.P. Ehlers
Director, Product Support (PTI Div.): R.A. Gentle
Services: Hydraulic flight controls, electrohydraulic servovalves, actuators, electronic controls, fuel valves & accessories, fluid filters, automatic test equipement. Overhaul, repair, exchange & spares.

Hynes Aviation Industries, Inc.
P.O. Box 697
Frederick Industrial Park
Frederick, OK 73542
☎ 405-335-7511 ■ 910-240-3971
President: Michael K. Hynes
Vice President/Technical Services: Kevin P. Hynes
Manager of parts/customer service: Tom Shandor
Services: Repair station and training facility. Also, airframe manufacturers and research & development for rotorcraft.

Identechs
22 Executive Park
Suite 250
Irvine, CA 92714
☎ 714-250-1290 ♦ 714-755-6275
President/Chief Executive Officer: Michael Van Hoye
Director of Sales: Stephen T. Swech
Vice President/Finance: Melvin Beale
Vice President/Research: Geoff Taylor
Services: Manufacturers and suppliers of visual NDT equipment, fluorescent penetrant dye kits, and anti-corrosive treatments for turbines and airframes.

II Morrow, Inc.
P.O. Box 13549
Salem, OR 97309
☎ 503-581-8101 ■ 5105990110
President: Ray E. Morrow, Jr.
Vice President: James Morrow
Vice President/Marketing: Michael G. Duff
Director of Engineering: Robert Bronson
Technical Sales Manager: Sam Seery
Services: Manufacturer of Loran navigation systems and vehicle tracking systems.

Indal Technologies Inc.
3570 Hawkestone Road
Mississauga, ON, L5C 2V8, Canada
☎ 416-275-5300 ■ 06-961482 ♦ 416-273-7004
President: G.R. Rutledge
Vice President/Business Development: R.E. Marcille
Director - Aircraft Marine Systems: L.T. Zbitnew
Area Manager - Aircraft Marine Systems: G. Gray
Manager/Product Development: Jaye Doyle
Services: Manufacturer & designer of electro/mechanical/hydraulic systems. World's leading supplier of helicopter support systems. (Telescopic hangars, hangar doors, recovery assist/traverse systems, flight decks)

Indianapolis Heliport Corporation
51 S. New Jersey Street
Indianapolis, IN 46032
☎ 317-262-3000 ♦ 317-262-3013
President: James M. Brown
Vice President: Victor J. Bandini
Services: Full service helicopter fixed base operation at downtown heliport. Fuel, heavy maintenance, storage, rental cars, restaurant/lounge, and hotel. All major credit cards accepted.

Industrial Tube Corporation
5231 Argosy Avenue
Huntington Beach, CA 92649
☎ 714-891-2365 ■ 910-596-1817 ♦ 714-893-5741
President: Robert M. Ansalone
Marketing/Sales: R.B. Johnson
Production Manager: Oliver D. Murray
Services: Manufacturer of non-metallic hoses, air ducting, flexible connectors, bellows, special shapes and fiberglass composite ducting.

Inotec. Ltd.
P.O. Box 70727
Reno, NV 89570
☎ 702-825-5099 ♦ 702-786-9941
President: Michael L. O'Brien
Vice President/Engineering: D. John Watts
Vice President/Customer Relations: Eric Lincoln
Services: Research, development, design, engineering consulting, manufacturing and sales of heliport, runway and taxiway self-powered lighting.

Instrument Specialties Co., Inc. (INSCO)
1111 Stanley Drive
Box 365
Euless, TX 76039
☎ 817-267-4493 ■ 9108905711
President: Jim Langkamp

Safety Manual

Looking for information on the civil helicopter industry? Helicopter Association International has it! Just give us a call, and it's in the mail to you. Here's a partial list of the many valuable publications from HAI:

- The Helicopter Annual
- The Fly Neighborly Guide
- Rotorgram and ROTOR
- The Heliport Development Guide
- HAI Safety Manual
- Visibility Unlimited, a guide to public relations for the helicopter operator.
- Maintenance/Malfunction Information Reports
- Preliminary Accident Reports
- Decision Making Manual for Helicopter Pilots
- Community Rotorcraft Transportation Benefits and Opportunities
- Amicus Briefs in support of the civil helicopter industry
- The Helicopter in the Urban/Suburban Environment
- Helicopter Operating Cost Estimate Guide

Contact HAI Headquarters for a complete list of publications and their prices. HAI, Attn. Publications, 1619 Duke Street, Alexandria, VA 22314-3406. Or call to order: 703-683-4646.

Sales Manager: Jeane Muncy
Director of Engineering: Robert Chambers
Services: Manufacturer of engine instrumentation.

Insured Aircraft Title Service, Inc.
P.O. Box 19527
Oklahoma City, OK 73144
☎ 405-681-6663 ■ 747192
President: Matthew Kelly
Vice President: Mary Miller
Vice President, Data Processing: Larry Smith
Services: Aircraft title insurance, escrow and title services. Aircraft lists and labels, statistics, aviation microfiche library.

Inter Assessoria Aeronautica Ltda.
Av. Churchill 94-6 Andar
Rio de Janeiro, 20020, Brazil
☎ 021-220-3113 ■ 2121529
Managing Director: Ary Granja
Technical Director: Cloanto L. Nogueira
Insurance Director: Mario P. Faria
Services: Aviation consultancy for flight safety and accident prevention, maintenance evaluations, risk assessment, and aviation insurance.

Interavia Publishing Group
86, Av. Louis Casai - Box 162
1216 Cointrin
Geneva, Switzerland
☎ 22-98-05-05 ■ 22122 ◆ 22-98-31-38
Aerospace Publications Director:
Pierre Condom
Editor-in-Chief, Interavia: Mark Lambert
Manager, External Relations: Viveca C. Ott
Editor-in-Chief, Int'l Defense Review:
Gouri Sundaram
Exhibition Liaison (USA): Monika Cornell
Services: Publishing in aerospace and defense: Interavia Aerospace Review, Int'l Defense Review, Int'l Defense Directory, Space Markets, Interavia Air Letter, ABC Aerospace Directory & Data Info. Service.

Intermountain Air College
180 North 2400 West
Salt Lake City, UT 84116
☎ 801-364-4644
President: Thomas Deaver
Director of Marketing: Jim Ellis
Director of Operations: Kelvin Hyatt
Services: Intermountain Air College is an FAA 141 flight school offering fixed wing private, instrument, commercial, multi-engine, and ATP training. Also, offers rotary wing private and commercial training.

International Aerospace Technologies, Inc.
7738 Governors Drive, West
Huntsville, AL 35806
☎ 205-837-0611 ■ 594441
President: Juergen K. Baumeister
Marketing/Sales: Johanna M. Baumeister
Manager - Spare Part Acquisition:
Thorsten Baumeister
Business Manager: Linda Reese
Services: Market research, planning, strategies, sales presentations, government contract support, technical studies-research, technical documentation and spare part acquisition.

International Airborne Systems Corporation
4180 Lougheed Highway
Suite 502
Burnaby, BC, V5C 6A7, Canada
☎ 604-291-7394
President: Douglas F. Good
Vice-President Marketing/Sales:
Britt Whitaker
Account Manager: Bill Yearwood
Services: Aviation management software products for every size or mix of operators. (e.g. maintenance, inventory, flight operations, etc.)

International Aviation Publishers, Inc. (IAP)
P.O. Box 36
1000 College View Drive
Riverton, WY 82501-0036
☎ 307-856-1582
President: Jerry L. Williams
Vice President/Editor: M. Dale Hurst
Publisher's Rep.: James E. Williams
Treasurer/Administrator: Norma Franklin
Services: Publish monthly aviation maintenance magazine, "International Aviation Mechanics Journal"; publish various aviation maintenance training manuals. (Free catalogs available).

International Data Systems, Inc.
4640 E. Elwood
Phoenix, AZ 85040
☎ 602-968-2244 ■ 668371
President/Chairman of the Board:
Robert L. Stewart
Vice President, Marketing:
James A. Vales
Software Sales: Leslie Stewart
Services: Aviation management computer system including: aircraft/rotable component status, work orders, inventory, purchasing, flight log and financials.

Interturbine - Dallas
1177 Great Southwest Parkway
Grand Prairie, TX 75050
☎ 214-641-6720 ■ 794921
Vice President & General Manager:
John Kasavich
Technical Manager: Ken Speirs
Marketing Manager: Earl Cole
Plant Manager: Chuck Roberson
Services: Interturbine is an authorized repair facility for Allison 250, Allison 501 and Lycoming T53 turbine components.

Inventory Locator Service Inc.
3781 Premier Avenue
P.O. Box 18767
Memphis, TN 38181-0767
☎ 901-794-4784 ■ 882179
President: Fred W. Meyer

National Sales Manager: Robert Drake
Office Manager: Pamela Pugh
Services: Provides on-line access to a data base of aircraft and aircraft parts availability. Also manufacture cross-reference and national stock number data base.

Isolair
P.O. Box 128
Gresham, OR 97030
☎ 503-661-5747
President: Robert Mosmeier
Administration: June Stepehens
Services: Manufacturing of aerial application equipment: spray systems, fertilizer buckets, etc. Also, provide sales and service of infrared equipment.

Jaeger Aviation Corporation
2615 W. Casino Road, Suite 5B
Everett, WA 98204
☎ 206-355-7112 ■ 329425
General Manager: Priscilla F. Moore
Services: Sales and product support for Thomson-CSF, Jaeger product line.

Jay-Tex Aviation, Inc.
P.O. Box 1091
Mt. Pleasant, TX 75455
☎ 214-572-3688 ■ 732379
President: John Niforos
Vice President/Sales: David T. Neely
International Marketing Rep.: T.W. Nokes
Services: Suppliers of T-53 and CT-58 engine spares; Helicopter spare parts for Sikorsky, Bell, Hughes, Hiller. Component exchange program available.

Jet Aviation, Inc.
Hanscom Field West
Bedford, MA 01730
☎ 617-274-0030 ■ 951 195 ◆ 617-274-6573
President: Robert Schaeberle
V.P./Marketing & Sales: Holly Barna
Maintenance Manager: Tom Mitchell
Maintenance Supervisor: George Adams
Services: Customer repair station for Allison 250 series, Bell, Agusta and Hughes aircraft. Aviall Service Center.

Jet Security Systems, Inc.
12 Hartwell Avenue, Rear
Lexington, MA 02173
☎ 617-863-9540
President: Robert F. Jasse
Vice President/Sales: Eric D. Sanders
Vice President/Engineering: Michael Oyer
Services: Manufacturer of state-of-the-art helicopter and aircraft security systems.

Jet Service Enterprises, Inc.
P.O. Box 1759
Bethany, OK 73008
☎ 405-787-1545 ■ 910-830-6871
President: Wyndel Blakemore
Vice President: DeWayne Nitzel
Director of Operations: Keith Canfield
Shop Manager: Jack Mills
Services: An FAA approved service station providing repair and overhaul of accessories and aircraft components.

Jet Turbine Service, Inc.
3929 California Parkway
Fort Worth, TX 76119
☎ 817-536-0012 ■ 735237 ◆ 817-531-8398
President: Peter LoBello
Operations Manager: Joe Penn
Sales: Mary deLaunay
Sales: [illegible]rry Zahn
Services: Buy and sell airframe and engine components.

Johnson & Higgins
125 Broad Street
New York, NY 10004
☎ 212-575-7000 ■ 420027
Senior Vice President: A. Kent Robinson
Vice President: Charles Laible
Vice President: Ronald Wilson
Vice President: Thomas Vietor
Services: Aviation insurance brokers.

KAMATICS Corporation
1330 Blue Hills Avenue
P.O. Box 3
Bloomfield, CT 06002
☎ 203/243-9704 ■ 643201
President: A. Whitfield
Vice President: Jack Reed
Product Sales Manager: Paul DeCrisantis
Services: Self-lubricating bridges, mechanical drive shaft couplings and composite components.

Kawasaki Heavy Industries, Ltd.
Aircraft Group
World Trade Center Building
4-1 Hamamatsu-Cho 2-Chome
Minato-Ku, Tokyo, 105, Japan
☎ 03-435-2019 ■ 242-4371 ◆ 03-436-3037
President: Hiroshi Ohba
Senior General Manager, Aircraft Group: Kanji Sonoda
General Manager, Aircraft Sales Div.: Akira Tsuji
Senior Manager, Aircraft Sales Div.: Maomi Yakushiji
Services: Manufacturer of aircraft, aerospace equipment, jet engines, ships, rolling stock, industrial plant, heavy machinery and motorcycles.

Keeton & Rich, Inc.
1420 W. Mockingbird Lane, #210
Dallas, TX 75247
☎ 214-634-2359 ◆ 214-634-2375
President: Wayne M. Keeton
Creative Director: Rudy D. Rich
V.P. of Creative Services: Leonard M. Nohr
Account Executive: David E. Dickerson
Services: Keeton & Rich is a full service advertising agency that specializes in the aviation, aerospace and defense industries.

Kell-Strom Tool Co., Inc.
214 Church Street
Wethersfield, CT 06109
☎ 203-529-6851 ■ 994426
President: Francis P. Kelly
Executive Vice President: Thomas J. Kelly
Services: License approved service tools: Pratt & Whitney Canada Inc., Bendix engine products, Bendix Energy Controls Division. Also, manufacture ultrasonic cleaning equipment.

Kinzie Industries, Inc.
P.O. Box 847
Alva, OK 73717
☎ 405-327-1565 ■ 272531
President: Wayne E. Kinzie
Sales: Jim Robinson
Public Relations: Beverly Kinzie
Development: Paul Kinzie
Services: Parts, service and sales for Hughes Helicopters.

H. Koch & Sons Division
Wickes Manufacturing Company
5410 E. La Palma Avenue
Anaheim, CA 92807-2099
☎ 714-779-7000 ■ 655 424
President: William D. Raftery
Marketing Representative: John L. Reid
Marketing Representative: George Braue
Marketing Representative: John McNaughton
Services: Life support equipment, flight crew hardware/fasteners, emergency egress lighting systems, vacuum packaging, specialty cases & program management services.

LEEAIR, Inc.
P.O. Box 1295
Orem, UT 84057
☎ 801-374-2064 ■ 882-702
President: Robert E. Lee
Assistant, Sales: Sondra Liston
Services: Aircraft and helicopter sales, finance, appraisals and inspections.

Lear Chemical
Research Corporation
1285 Britannia Road, East
Mississauga, ON, L4W 1C7, Canada
☎ 416-673-6192 ■ 06968916
President: Lynn W. McCleery
Manager: Mark Pearson
Administrator: Lise J. Pearson
Services: Manufacturer of anti-corrosion and lubrication products for specifically rotary wing, fixed wing aviation markets, the marine and industrial markets.

Lear Siegler
International Corp.
P.O. Box 10377
Stamford, CT 06904-2377
☎ 203-351-8300 ■ 4750060 ◆ 203-351-8305
Vice President/General Manager: Phil Caddoo
Director of Sales: John Downey
Marketing Services: Elizabeth Walker
Services: Authorized distributor for Marathon, SAFT, General Electric, Gill Aircraft Batteries, Christie, Hobart Ground Power Equipment & JET supplies.

Lord Corporation
Aerospace Products Division
P.O. Box 10039
1635 W. 12th Street
Erie, PA 16514-0039
☎ 814-456-8511 ■ 914438 ♦ 814-454-7445
President: A. James Freeman
General Manager: Robert C. Ditrich
Manager/Aerospace Marketing:
Edward J. Conway
Manager/Marketing Services:
Robert E. Alexander
Services: Manufacturers of elastometric products for the helicopter industry, specializing in products and technology related to the reduction and control of shock, vibration, noise and accomodate motion.

Lucas Aerospace
Corporate Headquarters Worldwide
Brueton House, New Road
Solihull
West Midlands, B91 3TX, England
☎ 021-704-5171 ■ 335334
Managing Director: Alan K. Watkins
Sales & Marketing Director:
Roger G. Haggett
Marketing Services Manager:
Angus MacLeod
Services: Design, development and manufacture of major electrical, electronic, hydraulic and pneumatic systems and equipment for all types of helicopters.

Lucas Aerospace Inc.
11150 Sunrise Valley Drive
Reston, VA 22091-4399
☎ 703-264-1704 ■ 197930 ♦ 703-264-1709
President/CEO: D.G. Magee
Services: North American headquarters office.

M & N Plastics, Inc.
P.O. Box 434
Springtown, TX 76082
☎ 817-523-7245 ■ 758516
Vice Pres./Gen.Mgr.: Sammy B. Summers
Sales/Marketing: Mark Summers
Services: Manufacturer of helicopter replacement windows.

Machida America
40 Ramland Road South
Orangeburg, NY 10962
☎ 914-365-0600 ■ 646955
President: Katsumi Oneda
V.P., Marketing & Sales: Ron Pell
Marketing Manager: Carole Gibbard
Services: Machida sells and services a complete line of fiberoptic borescopes and photo and video accessories for maintenance inspections.

Marathon Flite-Tronics Company
8301 Imperial Drive
Waco, TX 76710
☎ 817-776-0650
Director of Marketing: Larry D. Howell
Services: Manufacturer of FAA TSO'D AC static inverters & DC converters.

Marathon Oil Company
U.S. Steel Corporation
Aviation Division
Findlay, OH 45840
☎ 419-422-2121 ■ 242446
President: W.E. Swales
Manager/Aviation Division: J.W. Maxie
Manager/Flight Operations: E.B. Radkey
Pilot/Helicopter Coordinator:
Richard F. Landrum
Services: Aviation Division provides corporate personnel transport, and advisory service for units utilizing contract fixed wing and helicopter services.

Marathon Power Technologies
P.O. Box 8233
Waco, TX 76714-8233
☎ 817-776-0650 ■ 910-894-5203 ♦ 817-776-6558
President/Chief Executive Officer:
Richard W. Cowan
Vice President, Marketing: Leon J. Andrus
Director of Marketing: Larry Howell
Services: Manufacturer of vented nickel/cadmium aircraft batteries, inverters, chargers and temperature monitoring systems.

Maroc-Aviation
37, Boulevard De Montmorency
Paris, 75016, France
☎ 331-524-4321 ■ 25797M
Vice President, Marketing: G.P. Marche
Services: Maintenance and overhaul equipment and blades for helicopters. Services to operators.

Marsh & McLennan, Inc.
1221 Avenue of the Americas
New York, NY 10020
☎ 212-997-2000 ■ 12474
Mg Dir./Chairman Aviation & Aerospace:
Raymond C. Brooks
Senior Vice President, Montreal Office:
David Taylor
Services: Insurance Brokers.

Ed Marshall Insurance, Ltd.
P.O. Box 610
Salem, VA 24153-0610
☎ 703-389-9383 ■ 829472
President: Thomas Cook
Services: Aviation insurance agents.

Marsteller International, Inc.
5215 N. O'Connor Road
Suite 665
Irving, TX 75039
☎ 214-869-3144 ■ 650-263-0050 ♦ 214-869-2011
President: Paul A. Marsteller
Vice President/General Manager:
Philip A. Marsteller
Services: Marketing/consulting services in assisting U.S. and European aerospace manufacturers in marketing their products internationally. We also market used aircraft internationally.

The Marvel Manufacturing Co.
204 Passaic Avenue
Fairfield, NJ 07006
☎ 201-227-6090
President: L.M. Byron
Chief Engineer: R.E. Riddle
Marketing/Sales: J.R. Fuller
Services: Design & manufacture of precision horizontal suspension type static balance indicating equipment & application to helicopter rotors, aircraft propellers and other rotating parts.

Masco Service Corporation
1200 N. Kimball Avenue
Southlake, TX 76092
☎ 817-481-8205 ■ 735171
President: William C. Massey
Vice President: Ronald B. Massey
Services: Repair, overhaul, exchange, and sales of helicopter instruments.

Mata Helicopters Jerusalem
Israel Aircraft Industries Ltd.
P.O. Box 27-160
Jerusalem, 91271, Israel
☎ 02-841211 ■ 26213 ♦ 02-841210
President: Amnon Ishai
Vice President/Engineering: Samuel Arbel
Vice President/Finance: Noga Yaniv
Vice President/Marketing: Yair Keren
Services: Overhaul, maintenance and repair of helicopters and components including electrical systems.

MBB - Helicopter and Military Aircraft Group
P.O. Box 801160
8000 Munich, 80, West Germany
☎ 089-6000-0 ■ 5287-0
Senior Vice President: K. Pfleiderer
Vice President: V.V. Tein
Director: H. Huber
Director: S. Attlfellner
Services: Helicopter manufacturer.

MBB Helicopter Corporation
900 Airport Road
Box 2349
West Chester, PA 19380
☎ 215-431-4150 ■ 173102 ♦ 215-436-9618
Executive Director: C.W. Moore
President/CEO: David O. Smith
Senior Vice-President Marketing:
A. Aastad
Vice President, Operations: T.M. Lytle
Director, Domestic Marketing:
Louis Bartolotta, Jr.
Manager, Public Relations & Advertising:
Lynda Kate
Services: Responsible for the marketing, sales and technical support of the BK117 and BO105 twin-engine helicopters in the United States and Latin America.

McAllister Engineering Enterprises
9739 S. 208th
Kent, WA 98031
☎ 206-852-0263 ■ 294855UR
President: John H. McAllister

Secretary-Treasurer: Joyce M. McAllister
Services: Engineering and manufacture of helicopter auxilary systems: weighing-longline, external lift, heater, forest fire suppressant, computer, shock absorber, and static stoppers.

McDonnell Douglas Helicopter Company
5000 E. McDowell Road
Bldg. 510/A290
Mesa, AZ 85205
☎ 602-891-3000 ■ 3711268 ♦ 602-891-5599
President: William P. Brown
Vice President/Programs: Norman B. Hirsh
Vice President/Marketing: V.J. Varner
Vice President/Administration: D.J. Delaney
Director of Public Affairs: Robert W. Mack
Director/International Marketing:
Max Wiley
Services: Manufacturer of helicopters.

Measurement Systems International
12622 Interurban Avenue, South
Seattle, WA 98168
☎ 206-433-0199 ■ 328005
President: David C. English
Marketing: John R. Swartz
Advertising Manager: Terry L. Dazey
Services: Manufacturer of MSI-150 external cargo hook load monitoring systems. Instrument panel digital readout with optional printer/recorder.

Meridian Heliflight, Inc.
9703 Penn Road
Prince George, BC, V2N 2K8, Canada
☎ 604-561-1010 ■ 0477188
General Manager: Bruce Ellwyn
Chief Inspector: W.G. (Scotty) Farquhar
Chief Engineer: Rocky Buick
Parts Manager: Harvey Clark
Services: Complete service, repair, overhaul, and parts support for all commercial/military helicopter airframes, dynamic components, engines and their related systems.

Midland Ross Corporation
Grimes Division
550 Route 55
P.O. Box 247
Urbana, OH 43078
☎ 513-652-1431 ■ 205439
General Manager: John Paxton
Director of Marketing: R.M. Smith
Director of Engineering: Thomas Quinn
Manager, Engineering and Marketing:
John Hartzler
Services: Manufacturers of interior/exterior aircraft lighting; NVG compatable IR, filtered & electroluminescent lighting; master caution systems and windshield wipers.

Miller Industrial Tools, Inc.
7111 Hayvenhurst Avenue
Van Nuys, CA 91406
☎ 800-423-2383 ■ 696245 ♦ 818-785-4768
President: Leon I. Miller
Vice President/Secretary: Rosalind L. Miller
National Manager, Sales: Ken Perlis
Services: Tools for manufacturing and maintenance of aircraft, helicopters and spacecraft. Special tools manufactured to customer specifications.

Mitsui & Co. (USA) Inc.
433 E. Las Colinas Blvd.
Suite 1212
Irving, TX 75039
☎ 214-556-1224 ■ 71272795
General Manager: M. Minami
Assistant General Manager: N. Noda
Assistant General Manager: S. White
Services: Bell Helicopter Textron marketing rep./distributor/licensee for territory of Japan.

MPC Products Corporation
7426 North Linder Avenue
Skokie, IL 60077
☎ 312-673-8300 ■ 910-223-0838 ♦ 312-673-7144
President/CEO: Joseph M. Roberti
Executive Vice President: Vincent V. Roberti
Vice President/Sales & Marketing:
Anthony V. Trozzo
Manager, Contracts: Thomas A. Brookbank
Services: MPC Products Corp. is an innovative engineering and manufacturing organization dedicated to the design and production of high reliability and performance control devices.

Murdoch Magazines - Aviation and Aerospace Publications
1156 15th Street, N.W.
Washington, DC 20005
☎ 202-822-4624 ■ 892447 ♦ 202-293-2682
President: Martin Singerman
Executive Vice President: Carolyn Wall
Exeuctive Vice President: John Evans
Vice President/Public Relations:
Martin Broder
Marketing Services Manager:
Margaret E. Davis
Services: Publishers of: Business & Commercial Aviation, The Weekly of Business Aviation, World Aviation Directory, Aviation Daily, Aerospace Daily, Regional Aviation Weekly, Airports, and Aviation/AerospaceOnLine.

Nash Helicopter Associates Ltd.
York House, Clarendon Avenue
Leamington Spa
Warks, CV32 5PP, England
☎ 0926-32252 ■ 312559 ♦ 0926-833537
Managing Director: Martin Nash
Company Rep./Switzerland: Inge Feilhauer
Company Rep./Australia: Kevin Gosling
Services: Sale, lease and purchase of all types of used helicopters.

National Airmotive
P.O. Box 6069
Oakland, CA 94603-0069
☎ 415-635-1500 ■ 160-750 ♦ 415-562-7426
President: A.E. Morijig
Vice President, Marketing: R.G. Foster
Manager, Allison 250 Sales: Dennis J. Faris

Helicopter Association International's

SALUTE TO EXCELLENCE AWARDS PROGRAM

Since 1960, the Helicopter Association International's Salute to Excellence Awards Program has recognized the dedication, loyalty and excellence of individuals and organizations from every sector of the helicopter industry. The 1988 Salute to Excellence Awards reflect our continued drive for excellence in a dynamic industry. By recognizing the extraordinary merit of an individual or organization, HAI applauds and encourages the attainment of higher standards of professionalism. Please take the time to honor a colleague. HAI will accept nominations until November 1, 1988 for the following thirteen prestigious awards:

- **Lawrence D. Bell Memorial Award**
- **Crew of the Year Award**
- **Excellence in Communications Award**
- **Fly Neighborly Award**
- **Helicopter Maintenance Award**
- **McDonnell Douglas Law Enforcement Award**
- **MBB Golden Hour Award**
- **Outstanding Certified Flight Instructor Award**
- **Pilot of the Year**
- **HAI Safety Award**
- **Raise Your Sites Award**
- **Max Schumacher Memorial Award**
- **Robert E. Trimble Memorial Award**

Award Nomination Forms are available from:
HAI, 1619 Duke Street,
Alexandria, VA 22314-3406,
or call:
703-683-4646

Services: Franchised distributor for Allison Model 250 series turboshaft and turboprop engines. Engine & spare parts sales, complete overhaul and repair capability and exchange program.

Nordam/Lori
510 S. Lansing Street
Tulsa, OK 74120
☎ 918-560-5510 ■ 492377 ♦ 918-583-2604
Chief Executive Officer: Ray H. Siegfried, II
President, Lori: Robin Siegfried
President, Nordam: Charles B. Ryan
Director, Helicopter Marketing: Rex A. Smith
Services: Nordam - manufacture and remanufacture of all honeycomb parts. Lori - Manufacture and overhaul/repair of oil coolers.

Northern Airborne Technology Ltd.
1697 Powick Road
Kelowna, BC, V1X 4L1, Canada
☎ 604-763-2232 ■ 048-5203 ♦ 604-762-3374
President: Walter Shawlee
Vice President & Contoller: Mark Phillips
Services: Manufacturer of high tech audio management systems and helicopter voice advisory information systems (VADIS).

Northstar Avionics
Division of D.M.E.C.
30 Sudbury Road
Acton, MA 01720
☎ 617-897-6600 ■ 928018
President: Charles J. Malaquias, Jr.
Marketing Manager: Bob Merry
Services: Manufacturers of Loran navigation equipment.

Norton Performance Plastics
Composites Operations
335 N. Diamond Street
Ravenna, OH 44266
☎ 216-296-9948 ■ 4338012 ♦ 216-296-7955
Business Manager/Composites Operations:
Mark A. Dandurand
Sales Manager/Commercial Products:
Thomas N. Gibson
Sales Manager/Military Products:
Richard W. Hilblom
Services: Norton Performance Plastics specializes in design, manufacture and repair of radomes, and fabrication of aircraft composite structures.

Nozaki and Company Ltd.
Aircraft Department
16-19 Ginza 7-Chrome, Chuoku
Tokyo, 104-91, Japan
☎ 03-542-9234 ■ 22375 ♦ 03-545-0784
Assistant Director: Kenichi Umeda
General Manager: Hiroshi Kohzu
Deputy General Manager: Takao Negishi
Manager 2nd Section: Yoshikazu Ozawa
Services: Distributor.

L.E. O'Beirne & Associates, Inc.
311 Churchill Boulevard
Suite 200
Greenfield Park, PQ. J4V 2N1, Canada
☎ 514-671-1291 ■ 05-25158
President: L.E. O'Beirne
Services: Aviation insurance adjusters and surveyors.

The Official Helicopter Blue Book
4256 N. Arlington Heights Road
Suite 205
Arlington Heights, IL 60004-1372
☎ 312-259-7711 ■ 720 493 ♦ 312-259-2202
G.M./Chief Appraiser: Barry D. Desfor
Circulation/Advertising Mgr.: Sharon Desfor
Services: Publishers of the "Official Helicopter Blue Book"; Helicopter appraisals, residual value reports, personal inspections and expert witness testimony.

Offshore Navigation, Inc.
P.O. Box 23504
New Orleans, LA 70183
☎ 504-733-6790 ■ RCA 200-435 ♦ 504-733-8321
President/CEO: Joseph DeLerno
Vice President, Marketing:
A. William Marchal
Marketing Representative:
Patrick K. Bloodworth
Services: IFR Loran-C navigation products and digital data link/flight following equipment.

Olympic Fastening Systems, Inc.
11445 Dolan Avenue
Downey, CA 90241
☎ 213-861-7251 ■ 703624
General Manager: James K. Leeg
General Sales Manager: Robert Ferry
Customer Service Supervisor:
James K. Lawrence
Services: Manufacture aerospace fasteners and tooling systems.

Olympus Corporation
Industrial Fiberoptics Division
4 Nevada Drive
Lake Success, NY 11042-1179
☎ 516-488-3880 ■ 960199 ♦ 516-222-0878
Director of Sales & Marketing:
Peter G. Lorenz
Services: Flexible and rigid fiberoptic borescopes, light sources and photographic accessories.

Orion Electronics International
3447 Investment Boulevard
Suite #5
Hayward, CA 94545
☎ 415-887-7711
President/CEO: Arthur A. Loya
Operations Manager: Ronald A. Olson
Services: Orion manufactures computer Awos weather stations for heliports and/or airports including complete line of sensors. Portable units available for remote locations.

Orlando Blade Technologies Inc.
Building 125 Sanford Airport
Sanford, FL 32771
☎ 305-321-3068 ■ 564400
President: Ted W. Toms
Vice-President: Fred P. Clark
Secretary/Treasurer: Bradley G. Clark
Services: Rotor blade repair and overhaul.

P.E.D. - Pooleys
45450 Industrial Place, Unit 4
Fremont, CA 94538
☎ 415-490-8695
President: James W. Osterman
Vice President, Marketing: Bill Osterman
Services: Portable fueling systems. Fuel handling and storage systems of any size. Individual fuel quality control systems.

PacAero
P.O. Box 3226
2810-20 N. Lima Street
Burbank, CA 91504-3226
☎ 818-841-7800 ■ 677489 ♦ 818-841-7878
President: Charles R. Lovin
Vice President: Tom Hodges
Sales Representative: Gregg Backus
Sales Representative: Pat Ramsey
Services: Sales and service -- electrical accessories -- complete units and parts. Factory authorized distributor/FAA Repair Station. Also, offers exports facilities; exchange units available.

Pacer Systems
900 Technology Drive
Northwest Industrial Park
Billerica, MA 01821
☎ 617-667-8800
President/Chief Executive Officer:
J.C. Rennie
Vice-President/Chief Financial Officer:
R. Koczera
Senior V.P./Chief Operating Officer:
S. Goldblum
Senior V.P./Corporate Director:
D. Johnsen
Services: Engineering service providing advanced system, design, development, and support. Manufacturer of flight omni-directional air data systems and flight simulators/part task trainers.

Pacific Air Logistics, Inc.
2823 North San Fernando Blvd.
Burbank, CA 91504
☎ 213-845-7887 ■ 194121 ♦ 818-845-3018
Chief Executive Officer: B.J. Neighbors
Vice President/Marketing & Sales:
Lee Perkins
Vice President/Public Relations:
Jo J. Neighbors
Sales: Mark Turner
Services: Spare parts, accessories, tools, hardware supplier. Exchange components. Coordinate export shipments.

Pacific Airmotive Corp.
2940 North Hollywood Way
Burbank, CA 91503
☎ 213-842-5171 ■ 677695
President: Ronald Yates
General Manager: Bruce Wettstein
Manager - T-3 Engine: Jerry Carmody
Customer Liaison: Chuck Foster

Services: P&WC turbine engines: overhaul and repair services. Spare parts and engine accessory support.

Paravion Technology, Inc.
116 N. Racquette Drive
Ft. Collins, CO 80524
☎ 303-224-3898 ■ 887477 ♦ 303-224-3899
President: N. Larry Hansen
V.P., Production: Bradley J. Roon
Director of Sales: Lon Carlson
Services: Manufacturer of helicopter heaters, door actuators, components, and ground handling systems.

Parker Hannifin Corporation
Aircraft Wheel & Brake Division
1160 Center Road
Avon, OH 44011
☎ 216-937-6211 ■ 212527
Consultant: William C. Seidel
Aftermarket Sales Manager: John J. Bakos
Aftermarket Accounts Manager:
Roger F. Dickson
Services: Manufacturers of heating & airconditioning and hydraulic systems and components.

Parker Hannifin Corporation
Airborne Air & Fuel Division
711 Taylor Street
Elyria, OH 44036
☎ 216-323-4676 ■ 243414
Aftermarket Accounts Manager:
Sydney F. Reames
Services: Manufacturer of dry air pumps, fuel pumps, de-ice components, manifolds & check valves, and ECS components.

Parker Hannifin Corporation
Gas Turbine Fuel Systems Division
17325 Euclid Avenue
Cleveland, OH 44112
☎ 216-531-3000 ■ 980636
Aftermarket Sales Manager: Donald Vala
Services: Manufacture and overhaul of gas turbine fuel nozzles, manifolds and fuel controls.

Patterson Enterprises Inc.
7049 Valjean Avenue
Van Nuys, CA 91406
☎ 818-781-1421
President: Thomas A. Patterson
Vice President, Marketing:
Michael T. Patterson
Vice President, Public Relations:
James R. White
Operations Manager: Diane L. Collins
Services: Helicopter accesories for movie productions such as props etc. (camera mounts).

Pauli & Griffin Co.
907 Cotting Lane
Vacaville, CA 95688
☎ 707-447-7000 ■ 176328 ♦ 707-447-7036
President: Robert Pauli
Director, Sales/Marketing: Bill Butler
Senior Helicopter Representative:
Charles Bull
Services: Manufacturers of plastic reclaimable abrasive machine, (PRAM) utilizing plastic media for dry stripping paint from aircraft and components.

Pedley Nets
P.O. Box 1
Glen Ellen, CA 95442
☎ 707-996-6629
Chairman of the Board: Philip Pedley
President: Douglas Pedley
Secretary/Treasurer: Dixie Pedley
Services: Pedley Nets designs, engineers, manufactures, and distributes nets of all types for aviation - cargo, tie-down, barrier, safety, and heli-pad.

Peed Corporation- The Controller
P.O. Box 85670
Lincoln, NE 68501-5670
☎ 402-477-8900
President: Thomas J. Peed
Sales Manager: Kemper Wilkins
Trade Show Coordinator: Liz Kohout
Services: Aircraft sales publication.

Penny & Giles Transducers Ltd.
Airfield Road
Christchurch
Dorset, BH23 3TH, England
☎ 0-202-476621 ■ 41566
Managing Director: J.M. Dixon
Director of Marketing: G.R. Witt
Director of Manufacturing: V.P. Moores
Services: Design, development & manufacture of avionic, sensors and associated systems, analoguel/digital air data systems & pilot-static equipment.

Penny & Giles Transducers Ltd.
1640 Fifth Street
Santa Monica, CA 90401
☎ 213-393-1497 ■ 652337 ♦ 213-393-6040
President: Chris Thomson
Services: Sales/marketing/product support/customer liaison/AOG and repair and overhaul support.

Perkins Plastics, Inc.
3724 N. Commerce
Fort Worth, TX 76106
☎ 817-625-4106 ■ 75-8401
President/CEO: James A. Perkins
Vice President/General Manager:
H.E. Perkins
Vice President/Director of Manufacturing:
Dennis Henkell
Services: Manufacturers of helicopter windshields, window bubbles, canopies, and special design items, including composite materials.

Pioneer Safaris Ltd.
34 Bonar Drive
Hokitika, West Coast, New Zealand
■ 1064 - Hokitika
President: Geoff Havill
Vice President/Marketing & Sales:
Neville A. Dawson
Vice President/Public Relations:
Monica Havill
Operations Manager: John Singer
Services: Pioneer Safaris Ltd. specializes in custom hunting tours, venison recovery, and other commercial related work.

PLM Transportation
Equipment Corporation
655 Montgomery Street
Suite 1200
San Francisco, CA 94111
☎ 415-989-1860 ■ 510-100-7839 ♦ 415-433-9152
Chairman: Mark C. Hungerford
President: Allen V. Hirsch
Vice President/Marketing: Mark J. Anderson
Services: Aircraft lessor specializing in lease financing, purchase/lease-back and remarketing services.

Polaris Aircraft Leasing Corporation
600 Montgomery Street
San Francisco, CA 94111
☎ 415-362-0333 ■ 67530 ♦ 415-362-4278
V.P. Corporate Aircraft: Dick Adams
Director, Marketing/Corporate Aircraft:
John Dorenbecher
Services: Short term and long term leasing of helicopters and fixed wing aircraft.

Pratt & Lambert
P.O. Box 2153
Wichita, KS 67201
☎ 316-733-1361
President: Wallace A. Steele
Vice President/Sales & Marketing:
John Havel
National Account Manager: Mike Engel
Inside Sales: Mary Moss
Services: Pratt and Lambert manufactures Jet Glo polyurethane coatings, Enflex III urethane coatings and Acry Glo urethane coatings.

Pratt & Whitney Canada Inc.
1000 Marie-Victorin
Longueuil, PQ, J4G 1A1, Canada
☎ 514-677-9411 ■ 05267509 ♦ 514-647-3953
President/CEO: L.D. Caplan
V.P. Communications: P. Henry
V.P. Marketing Support: John N. Clark
V.P. Marketing: R. H. McLachlan
Services: Designs, develops and manufacturers gas turbine engines for general aviation aircraft. Worldwide support for PT6, PT6T, PW100 and PW200.

Precise Flight, Inc.
63120 Powell Butte Road
Bend, OR 97701
☎ 503-382-8684
President/CEO: Michael A. McDaniel
V.P., Marketing/Sales: James O. Anderson
V.P., Public Relations: Janett E. Alvarez
Services: Aircraft anti-collision visual contact light system. (Pulselite)

Professional Helicopter Services Ltd.
209 Champlain Street
Timmins, ON, P4N 7L3, Canada

☎ 705-267-6585 ■ 067-81627
President: Barry G. LeDuc
Services: Maintenance, management and consulting.

Professional Pilot Magazine
3014 Colvin Street
Alexandria, VA 22314
☎ 703-370-0606 ■ 517267
Publisher: Murray Smith
Editor: C.V. Glines
Services: Publishing.

Publishers for Conventions, Inc.
1205 Main Street
Pittsburgh, PA 15215
☎ 412-781-0412
President: B.J. Gessler
Services: The NATIONAL CONVENTIONEER, a free catalog of products and services relating to the helicopter industry.

Pueblo Airmotive, Inc.
P.O. Box 36592
Tucson, AZ 85740
☎ 602-742-2018 ■ 294308 ♦ 602-623-6078
General Manager: Leon Ames
Director of Sales/Marketing: John C. Boucher
Services: Overhaul/repair of the Textron Lycoming T53 series engine. Offering technical and spare part support.

The Purdy Corporation
586 Hilliard Street
P.O. Box 1898
Manchester, CT 06040-1574
☎ 203-649-0000 ■ 710-427-4190
President: John M. Purdy, Jr.
Executive Vice President: George J. Purdy
Vice President/Sales: William E. Sullivan
Vice President/Finance: Burton E. Swanson
Services: Manufacturing gearboxes, spindles, swashplates, hubs, cams, bulkheads, gears (spiral & bevel) splining bonding and plating.

Qualimetrics, Inc.
P.O. Box 41039
Sacramento, CA 95841-1039
☎ 916-923-0055 ■ 377 310 ♦ 916-923-5737
President: Donald L. Eberly
Vice President, Marketing:
Raymond A. Henry
Systems Sales: Robert C. Schmidt
Services: Qualimetrics is a manufacturer of automatic weather observation systems.

Ramapo Helicopters, Inc.
Smith Road
Spring Valley, NY 10977
☎ 914-352-8600 ■ 131528 ♦ 914-425-4101
President: Richard Eimert
V.P., Marketing/Sales: James V. Mitchell
Services: FAA, BHT, AHC repair station for maintenance, storage and major airframe repair.

Regal Aviation & Marine Insurance
3355 N.E. Cornell Road
Hillsboro, OR 97124
☎ 503-222-2225 ■ 62868900 ♦ 503-640-3071
President: Bill Clark
Vice President: R.D. Wissmiller
Services: Specialty aviation insurance agency and insurance consultation.

Richardson Management Associates
2060 Sherbrooke Street West
Suite 102
Montreal, PQ, H3H 1G5, Canada
☎ 514-935-2593
President: Gisele Richardson
Marketing/Sales: Clarissa Reuben
Services: Training in human relations, team effectiveness, communications and motivation for safety and excellence.

Riverside Air Service
6741 Flight Road
Riverside, CA 92504
☎ 714-689-1160
President: Joe Pagan
V.P., Marketing/Sales: Don Toten
V.P., Public Relations: Sharon Pagan
Director of Maintenance: Bill Estes
Services: Complete F.B.O. computer program accounting package. Also, an Aerospatiale service center.

Ro-Wing Aviation, Inc.
275 E. Pleasant Valley Road
Hangar 2
Camarillo, CA 93010
☎ 805-484-0556
President: Gary D. Foster
Chief Financial Officer:
Roger M. Gagnon
Secretary: Maureen F. Foster
Services: Hughes 500 service center/FAA certified repair station.

Robinson Helicopter Company
24747 Crenshaw Boulevard
Torrance, CA 90505
☎ 213-539-0508 ■ 182554 ♦ 213-539-5198
President: Frank D. Robinson
Vice President: D. Edward Broman
Vice President/Marketing:
Barbara K. Robinson
Services: Manufacturer of two-place piston-powered R22 helicopter.

Rogerson Hiller Corporation
2140 W. 18th Street
Port Angeles, WA 98362
☎ 206-452-6891 ■ 15-2488 ♦ 206-457-5426
President: Gerald J. Tobias
V.P. Sales & Marketing: Victor Milner, Jr.
Services: Manufactures, sells, supports, worldwide UH12E "HAULER" agriculture helicopter, RH1100M "HORNET" light attack helicopter TOW and SCOUT configuration.

Rollins Burdick Hunt[illegible]
National Aviation Div[illegible]
10 South Riverside Plaza
Chicago, IL 60606
☎ 312-454-1400
President: Donald A. Wilson
Senior Vice President: J. Howard Payne
Vice President: Robert L. Manthey
Services: Multi-national insurance broker. Risk Management consultant.

Rolls-Royce Limited
Leavesden
Watford, WD2 7BZ, England
☎ 0923-674000 ■ 23206
Director: Gordon F. Page
Head of Product Support: D.M. Masters
Marketing Manager: F.W. Thompson
Director Product Support RR Inc.:
P.A.C. Oldfield
Services: Design, development and manufacturer of turboshaft engines between 800 shp and 2500 shp. Repair, overhauls and comprehensive product support.

Rotair Industries, Inc.
P.O. Box 4098
Bridgeport, CT 06607
☎ 203-576-6545 ■ 964-227
President: H.F. Harrington, Jr.
General Manager: Ramiro Rocuant
Manager, Commercial Marketing:
Thomas W. Nokes
Services: Manufacturer of spare parts.

Rotor & Wing International
PJS Publications, Inc.
P.O. Box 1790, News Plaza
Peoria, IL 61656
☎ 309-682-6626 ■ 469661
Publisher: Jerry Constantino
Editor: David Jensen
Advetising Director: Julia Stone
Directories Editor: Kathleen S. Kocks
Services: Monthly trade magazine for the helicopter industry, includes annual Buyer's Guide and Defense Directory as the 13th and 14th issues.

Rotor Blades, Inc.
P.O. Box 589
Stockton, CA 95201
☎ 209-466-0725 ■ 5107655162 ♦ 209-466-3148
President: Philip A. Johnston
Controller: Dyanne L. Vargas
Services: Repair and/or overhaul of helicopter rotor blades.

Rotor Blades (Nz.) Limited
6/11 Markedo Place
P.O. Box 673
Papakura, New Zealand
☎ 09-298-1655 ■ 63035 ♦ 09-275-6569
President: Graham Boustred
Services: New Zealand affiliate.

Rotor-Flite, Inc.
8888 W. Munroe
Houston, TX 77861
☎ 713-641-0159
President: Robert "Doug" Idema
Secretary/Treasurer: Chuck Emmett
Director of Administration: Julie K. Idema
Services: Aerospatiale service station A-Star, Twin Star (CRS 264-4). Also, provide general maintenance/inspection.

Rotorcraft Association of North America (RANA)
425 N. Martingale - Suite 1050
Schaumburg, IL 60173
☎ 312-240-9400 ♦ 312-240-9450
President: William A. Stamer
Vice President: Robert W. Bryan
Safety Analyst: Ralph C. Rosenbrock
Services: Insurance.

SAFT America, Inc.
711 Industrial Boulevard
P.O. Box 1886
Valdosta, GA 31603-1886
☎ 912-247-2331 ■ 547620
President: Edward L. Nargi
Manager, Corporate Communications:
Marsha B. Dukes
National Sales Manager: Charles E. Hopper
Services: Manufacture and market aviation batteries. Product is available through authorized dealers.

Schweizer Aircraft Corp.
P.O. Box 147
Elmira, NY 14902
☎ 607-739-3821 ■ 932459 ♦ 607-796-2488
President: Leslie E. Schweizer
Vice President: W. Stuart Schweizer
Vice President Marketing:
Paul H. Schweizer
Helicopter Marketing Director:
Larry A. Brooks
Services: Manufacturer of the agricultural aircraft, the Ag-Cat, 300C helicopter and subcontract work for the aerospace industry.

Schwem Technology
3305 Vincent Road
Pleasant Hill, CA 94523
☎ 415-935-1226 ■ 910-240-0269
President: Janet Alvarez
Senior Vice President: George Grasso
Marketing Manager: Katherine Metrulas
Services: Schwem Technology manufactures a stabilizing zoom lens compatible with most video cameras.

Seagil Software Company
P.O. Box 720593
Atlanta, GA 30358
☎ 404-843-8998
President: Christopher Calia
Vice President: Gilbert L. Gregg, Jr.
Secretary/Treasurer: Natalie K. Gregg
Services: BART Software for A/C management, scheduling, reports, airport directory, inventory, budgeting, maintenance, monitoring, charter quote, flight analysis communications and recordkeeping.

Sedgwick Aviation Limited
Sedgwick House
The Sedgwick Centre
London, E1 8DX, England
☎ 01-377-3456 ■ 882131
Chairman: G.A. Hargreaves
Deputy Chairman/Managing Director:
D.P. Trezies
Director: Michael F.B. Ward
Director: C.W. Bridges
Services: International insurance brokers specialising in aviation/aerospace including airlines, manufacturers, helicopters, airports, general aviation and space business.

SEI Industries Ltd.
406-5940 No. 6 Road
Richmond, BC, V6V 1Z1, Canada
☎ 604-270-6433 ■ 04355779
President: Don Arney
General Manager: Mark J. McCooey
Vice-President Marketing: Ken Nielson
Sales Manager: Candace Espeseth
Services: Manufacture & sales of Bambi Bucket water bucket, Fuel-Easy flyable fuel container, Terra Tank ground storage bladders, Jet-Net marine rescue apparatus.

Semco Instruments, Inc.
11505 Vanowen Street
North Hollywood, CA 91605
☎ 818-982-1400 ■ 910-499-2155 ♦ 818-982-8229
President: S.M. (Sam) Moore
Marketing/Sales: S. Guy Moore
Services: Turbine engine sensors, controls and turbine engine trend monitoring and recording systems.

SEMIA
122 avenue de la Plaine-de-France
Zone Industrielle
Roissy, 95948, France
☎ 48-63-81-82 ■ 231823
President/CEO: Andre J. Spite
Services: Semia provides product support for Aerospatiale helicopters. Involved in the manufacture and marketing of maintenance equipment and also provides maintenance consulting services.

Sensor Systems, Inc.
8929 Fullbright Avenue
Chatsworth, CA 91311
☎ 818-341-5633 ■ 69-1583 ♦ 818-341-9059
Executive Vice President: Si Robin
Services: Manufacturer of aircraft antennas.

Sermatech International Inc.
155 S. Limerick Road
Limerick, PA 19468
☎ 215-948-5100 ■ 84-6335
General Sales Manager: Bob Krowka
Field Engineer/STS West/Airfoil Mgmt.:
George Ottiniano
Airline Specialist/STS West Coast:
Kevin Kelly
Services: Specialized turbine engine component services; coatings- SermeTel corrosion protection, Gator-Gard Wear/Erosion Protection, R.M.C. Engine Cleaner, Airfoil Mgmt./RD-305.

SFENA
B.P. 59
Velizy-Villacoublay, 78141, France
☎ 1-46-30-23-85 ■ 260046F ♦ 1-46-32-85-96
President/Chief Executive Officer:
Alain Guigue
General Manager: Jean Monfort
Director of Marketing: Francois Peguillan
Technical Director: Michel Bayet
Services: Flight guidance systems, flight instruments.

SFENA Corporation
2617 Aviation Parkway
Grand Prairie, TX 75051
☎ 214-988-8000 ■ 9108664655
President: Dan Hampton
Vice President: Rod Iverson
Director, Military Marketing:
Dennis Drozdz
Director, Commercial Marketing:
Roscoe Armstrong
Marketing Services Administrator:
Tamera Muse
Services: Manufacturer of helicopter flight control systems, IFR kits and gyro instruments. Helicopter avionics/electronics systems; integration, engineering and installation.

S.F.I.M.
B.P. 74
91301 Massy, France
☎ 1-69-20-88-90 ■ 692164 ♦ 1-69-20-28-13
President: J.L. Larpent
Director of Marketing: J.C. Parmentier
V.P. Public Relations: Mrs. Prein
Services: Automatic flight control systems (gyroscopes).

The Shephard Press Ltd.
111 High Street
Burnham
Bucks, SL1 7JZ, England
☎ 06286-4311 ■ 846575 AIRGO ♦ 06286-64334
Managing Director: Alexander D. Shephard
General Manager: Adrian Burton
Editor/Defence Helicopter World:
Scott Wilson
Editor/Helicopter World: Ian Parker
Services: Publishers of Helicopter World, Defence Helicopter World, Commuter World and Space, with annual buyers guide directories.

The Shephard Press Ltd.
North American Office
14 South Hill Road
Colonia, NJ 07067
☎ 201-388-4245
Editor - North America:
Frank Colucci
Services: U.S. Office.

Sikorsky Aircraft
N. Main Street
Stratford, CT 06602
☎ 203-386-4000 ■ 7104531330
President/Chief Executive Officer:
Eugene Buckley
V.P., Commercial Marketing:
Mackie D. Mott
V.P., Worldwide Customer Svc.:
Kenneth C. Mard
Director of Communications:
Robert Stangarone

Manager of Public Relations:
Martin Moore
Services: Design, development, test and manufacture of helicopters and equipment.

Simmonds Precision
Product Support Division
5250 N.W. 33rd Avenue
Fort Lauderdale, FL 33309
☎ 305-497-0100 ■ 807378 ♦ 305-497-0190
Vice President/General Manager:
Duncun E. Bossle
Director, Customer Service:
Dominic J. Scardino
Marketing Manager: William H. Thomas
Services: Overhaul and repair of Simmonds components, manufacture of fuel quality field test and calibration test equipment.

Simplex Manufacturing Co.
13340 N.E. Whitaker Way
Portland, OR 97230
☎ 503-257-3511 ■ 360936
President: Daniel Conti
Vice President: James D. Galligan
Sales Manager: Ken Glanz
Services: Manufacturer and sales representative for aerial application equipment for helicopters for spraying, seeding, oil pollution control and fire fighting.

Sky Controls, Inc.
7518 Clybourn Avenue
Sun Valley, CA 91352
☎ 213-877-0341 ■ 9104982728
President: Jack Y. Holiday
Vice President, Marketing:
Mark S. Holiday
General Manager: Doug Holiday
Secretary: Mercy E. Holiday
Services: Sale of new & overhauled aircraft accessory items. Limited sale of complete aircraft.

Sky Sign
P.O. Box 490068
Miami, FL 33149-0068
☎ 305-759-7446 ■ 807533
President: Betty Foster
Vice President Marketing:
C. Tom Foster
V.P. Public Relations: J. Scott
Services: Electronic aerial & ground message systems (Goodyear Blimp type) day and night usable.

SL Auburn Inc.
89 York Street
Auburn, NY 13021
☎ 315-252-9501 ■ 710-896-0138 ♦ 315-252-8172
President: Charles E. Riffle
Aviation Sales Manager: Edward J. Dyman
Engineering Manager: Stephen F. Smith
Services: Manufacturer of aviation spark plugs and igniters.

Sock Line Specialists Inc.
3300 West Union Avenue
Englewood, CO 80110
☎ 303-794-6747
President: Claude L. Chapman
Vice President/Sales & Marketing:
Jack Zeiler
Vice President/Public Relations:
Paul Pennock
Secretary/Treasurer: Jim Kimsey
Services: The rental of non personnel hookups for extended loads including threading power line towers with a needle for pulling wire.

SOGEREP - Bell Helicopter Arabia
P.O. Box 41699
Riyadh, 11531, Saudi Arabia
☎ 966-1-465-5378 ■ 403254 ♦ 966-1-464-4190
Vice President/General Manager:
Thomas E. Thompson
Marketing Manager: Christopher P. Rivers
Technical Services Manager: Trevor Pybus
Director of Finance: James E. Zieman
Services: SOGEREP is the sole representative for Bell Helicopter Textron in the Kingdom of Saudi Arabia and is also involved in operations and maintenance.

Soloy Conversions, Ltd.
450 Pat Kennedy Way, S.W.
Olympia Way, WA 98502
☎ 206-754-7000 ■ 510-785-0241
President: Joe I. Soloy
Marketing Group Manager: Randy Furtick
Sales Manager: Tim Koester
Domestic Sales Manager: Nick Parkinson
Services: Turbine conversions for Bell 47, Hiller 12E, Cessna 206 & 207, Beechcraft A-36. Also, manufacture portable heliports.

Sony Trading Corporation
10-18 Takanawa, 4-chome
Minato-Ku
Tokyo, 108, Japan
☎ 03-448-3136 ■ 2424328
President/CEO: Toshiro Miyamoto
Managing Director: Matsuji Kato
Services: Aerospatiale's helicopter sales agent and distributor in Japan.

Southeastern Aviation
Underwriters, Inc.
P.O. Box 20439
Atlanta, GA 30325
☎ 404-351-8303 ■ 542550
President: John A. Myers
Senior Vice President: Gray Toulmin
Vice President: Scott Brown
Vice President: William Easen
Services: Aviation physical damage and liability insurance.

Southern Air Transport, Inc.
P.O. Box 52-4093
Miami, FL 33152
☎ 305-871-5171 ■ 51-8856 ♦ 305-871-2921
Chairman: James Bastian
President: William Langton
Vice President/Sales: Asa C. Hemperley
Services: Aviation transport services.

Southern Marine & Aviation
Underwriters, Inc.
610 Poydras Street
New Orleans, LA 70130
☎ 504-524-4131 ■ 58-7440 ♦ 504-525-0313
President: Doyle P. Spell
Vice President: Stephen P. Dinsdale
Services: Provide helicopter insurance for all classes of helicopters operated by U.S. corporations.

Spar Aerospace Limited
825 Caledonia Road
Toronto, ON, M6B 3X8, Canada
☎ 416-781-1571 ■ 065-24240 ♦ 416-781-1571
Manager, International Sales:
George E. Naida
Manager, North American Sales:
Michael J. Payne
Services: Repair and overhaul of electrical and mechanical components and accessories for fixed and rotary wing aircraft.

Sparling Corporation
12250 Coyle Avenue
Detroit, MI 48227
☎ 313-838-4400
President/CEO: Paul E. Clements
Vice President: Dennis Callan
Marketing: Thomas J. Riss
Services: Design and construct bulk aviation fuel systems and manufacturer of aviation fueling equipment.

Spectrolab, Inc.
12500 Gladstone Avenue
Sylmar, CA 91342-5373
☎ 818-365-4611 ■ 182881 ♦ 818-365-7680
President: Dieter K. Zemmrich
Marketing Manager: Bryan P. Roland
Product Line Manager: Robert Chandler
Marketing Adminisitrator: Sylvia J. Brennan
Services: Searchlights for helicopters and fixed wing aircraft. Also, infrared filters.

STS Avionic Products Inc.
11600 Lilburn Park Road
St. Louis, MO 63146
☎ 314-567-0304 ■ 9107640810 ♦ 314-567-0376
Product Manager: Brian J. Lorenz
Services: Manufacture and distribute avionic products: the AV 7600VOR, a handheld transceiver with VOR, and the Loran-C110.

Standard Aero Limited
33 Allen Dyne Road
Winnipeg International Airport
Winnipeg, MB, R3H 1A1, Canada
☎ 204-775-9711 ■ 07-57878 ♦ 204-885-2229
President/Chief Operating Officer:
Doug M. Finley
Vice President/Sales & Marketing:
R.A. Carter
Vice President/Operations: H.E. Tackaberry
Services: Overhaul of helicopter engines and accessories. Distribution of helicopter parts and products. Branches in U.S., Canada, and Europe.

Standard Helicopter Corp.
1828 N.E. Siskiyou
Portland, OR 97212
☎ 503-284-4667
President: Greg Nutt
Vice President: Doris Nutt
Services: Helicopter management/consultant. Parts manufacturing/accessories.

Stewart Smith
Stewart Wrightson Organization
1 South Wacker Drive
Suite 2800
Chicago, IL 60606
☎ 312-236-7333 ■ 510-6003724 ♦ 312-236-6114
Assistant V.P./Aviation Department:
Tim Snape
Services: Insurance.

Tallmantz Aviation
19711 Airport Way South
Santa Ana, CA 92707
☎ 714-756-1193
President/CEO: Charles C. Seven
Executive Vice President/General Manager:
Marty Cooper
Director, Helicopter Maintenance:
Ed Dietrich
Services: FBO providing all makes, models of helicopters. Service center for McDonnell Douglas, Schweizer, and Aerospatiale AS 350's and AS 355's.

Tech Tool Plastics, Inc.
7800 Skyline Park Drive
Fort Worth, TX 76108
☎ 817-246-4694 ■ 758635
President: John E. Wilson
Services: Helicopter window and bubble manufacturing.

Teledyne Avionics
P.O. Box 6400
Charlottesville, VA 22906
☎ 804-973-3311 ■ 510-587-5469
President: Herbert M. Barnard
Director of Marketing/Sales:
Dale J. Thompson
Marketing Development Manager:
Joyce DeWitt
Customer Support Manager:
Jules Perelli-Minetti
Services: Design and manufacturer of PAR-Power Analyzer and Recorder, an intelligent turbine system health monitor. Also, manufacture angle-of-attack indicators and IVSI.

Teledyne Battery Products
P.O. Box 2150
840 W. Brockton Avenue
Redlands, CA 92374
☎ 714-793-3131 ■ 676438 ♦ 714-793-5818
President: Lee Wenzel
Aftermarket Sales: Dan Rankin
Manager, OEM Sales: Dick Ruff
Services: Manufacturers of the "GILL" lead acid aircraft battery line.

Teledyne Neosho
P.O. Box 648
Neosho, MO 64850
☎ 417-451-1810 ■ 9107704963
President: Wayne D. Ortloff
Executive Vice President:
M.A. ("Dutch") Barbettini
Manager, General Aviation:
Dale Ortloff
Services: Overhauler of engines and manufacturer of aircraft precision gears.

Teledyne Systems Company
19601 Nordhoff Street
Northridge, CA 91324
☎ 818-886-2211 ■ 910-493-1249
President: Harry Halamandaris
Vice President Business Development:
Ted Izen
Public Relations: Mike Barritt
LORAN Program Manager: Lyle Gillette
Services: Avionics.

Telex Communications, Inc.
9600 Aldrich Avenue South
Minneapolis, MN 55420
☎ 612-884-4051
Vice President, Marketing/Sales:
James S. Arrington
Sales Manager, Aviation Products:
Burt Gore
Director, Public Relations: Peter Schwarz
Director, Marketing Communications:
Don Mereen
Services: Manufacturer of aviation microphones, headphones, boom-mic headsets and intercom systems.

Tennant Co.
701 N. Lilac Drive
Minneapolis, MN 55422
☎ 612-540-1200 ■ 290451
President: Roger Hale
Vice Presdient/Marketing: Lyle Delwiche
Trade Show Coordinator: Philip Hernandez
Services: Manufacturer of power sweepers and power scrubbers, floor treatment materials including chemical resistant urethane.

Texaco USA
Aviation Transport Division
35 Aviation Road
Houma, LA 70363
☎ 504-876-5470
Head Pilot: Kenneth L. Develle
Services: Aviation transport division for Texaco USA.

Texstar, Inc.
P.O. Box 534036
Grand Prairie, TX 75053-4036
☎ 214-647-1366 ■ 073-2397 ♦ 214-641-2800
President/CEO: Earl I. Jones
V.P./Marketing: T.W. Weatherred
V.P./Operations: James V. Irion
V.P./Controller: E. A. Wolcott
Services: Custom plastics fabricator; manufacturer of transparencies, ducting and interior parts for aircraft.

Textron Lycoming
550 Main Street
Stratford, CT 06497
☎ 203-385-2753 ■ 964242 ♦ 203-385-3255
President: John R. Myers
Vice President, Customer Operations:
Robert A. Gustafson
Director, Communications:
William B. McDaniel
Vice President, Military Engine Programs:
Steven White
Services: Manufacturer of military/commercial aviation, vehicular and marine gas turbines. Also, complete maintenance operation center for all repairs and engine overhauls.

Textron Lycoming
Williamsport Plant
652 Oliver Street
Williamsport, PA 17701
☎ 717-323-6181 ■ 841-415
Vice President/General Manager:
Philip R. Boob
Vice President/Sales & Service:
Otto Oppliger
Director of Marketing:
Michael D. Wolf
Services: Reciprocating piston and light turbine engine manufacturing and refurbishment.

Thomson-CSF, Aerospace Group
2615 West Casino Road
Suite 5B
Everett, WA 98204
☎ 206-355-7112 ■ 32-9425 ♦ 206-353-5945
General Manager: Priscilla F. Moore
Product Support: Henry Pinet
Services: Manufacturer of avionics, instruments, head up & head down displays. (Manufactures Jaeger product line).

Tiodize Co., Inc.
15701 Industry Lane
Huntington Beach, CA 92649
☎ 714-898-4377 ♦ 714-891-7467
President: Thomas R. Adams
Services: High-tech lubricants, corrosion coatings, graphite composites, teflon impregnation of hard anodize; titanium anodizing using the tiodize process AMS 2488 & coatings.

TOTAL CFP
Cedex 47 - La Defense
92069 Paris, France
☎ 1-42-91-47-50 ■ 615-700
Air Transport Operations Superintendent:
J. Baldus
Services: Oil company - Exploration - production - crude oil.

Transaero, Inc.
80 Crossways Park Drive
Woodbury, NY 11797
☎ 516-921-7400 ■ 967734 ♦ 516-921-7407
President: Shell B. Youngwall
Executive Vice President: Anthony Caputo
Vice President, Sales: David R. Mazoff

Vice President, Administration: Charles Kane
Marketing: Perry Youngwall
Services: Aircraft spares, components, systems, ground support power units and equipment, and survival and personnel equipment.

Transupport, Inc.
69 Raytkwich Drive
Naugatuck Industrial Park "B"
Naugatuck, CT 06770
☎ 203-729-8226 ♦ 203-723-5580
President/CEO: Harold Foote
V.P. Marketing: Kenneth Foote
Services: Avco T-53/T-55 engines and spares. Also, T-53/T-55 special tools.

Triple H Industries
4212 Murray Avenue
Fort Worth, TX 76117
☎ 817-281-4553 ■ 323772
President: Don Haggard
Exeuctive Vice President: C.D. Huggin
Marketing/Sales: Ee S. Song
Public Relations: Linda Whitley
Services: Manufacturer of seats, tools and ground support equipment for commercial and military application. Litter system, swivel seats, repelling bar for EMS, police and rescue.

Tronair, Inc.
S. 1740 Eber Road
Holland, OH 43528
☎ 419-866-6301 ■ 8104402839 ♦ 419-867-0634
General Manager: Wayne A. Geraci
Marketing/Sales: Ron W. Dossat
Engineering: Paul Borton
Controller: Nino Carrollo
Services: Manufacture and distribute ground power equipment, hydraulic service equipment, hydraulic jacks, engine stands, towbars, workstands and other ground support equipment.

Tug-A-Lug, Inc.
41614 102nd Street East
Lancaster, CA 93534
☎ 805-944-1910
President: Donald A. Harman
Services: Manufacture helicopter and small aircraft ground handling equipment.

Turbo West, Inc.
Jefferson County Airport
Broomfield, CO 80020
☎ 303-469-6671 ■ 454564 ♦ 303-469-0236
President: Chris Finnoff
Vice President, Service: Douglas Stimpson
Helicopter Division Manager:
Michael Cochran
Services: Factory approved service center for Bell 206 series.

Turbomeca
Bordes
64320 Bizanos, France
☎ 59-328437 ■ 560928
Chairman: Joseph Szydlowski
Vice President: Gerard Pertica
Assistant General Manager:
Marcel Tavernier
Commercial Manager: Pierre Vauterin
Services: Design, manufacture, sales and product support of turboshaft engines for helicopters.

U.S. Aviation Corporation
15 Jonathan Way
P.O. Box 508
Washington Crossing, PA 18977
☎ 215-493-9641 ■ 4972309
Chairman: Frederick V. Martin, Jr.
President: Robert P. Bohn
Services: Financing, leasing, investments, marketing, remarketing, acquisition services, asset management, consulting for corporate and commercial aircraft, rotary wing and fixed wing.

Universal Navigation Corporation
3545 W. Lomita Boulevard
Unit B
Torrance, CA 90505
☎ 213-325-4081 ■ 705806 ♦ 213-534-8672
President: Hubert L. Naimer
Executive Vice President:
Charles H. Edmondson
Vice-President, Marketing:
Donald D. Berlin
Manager, Marketing Administration:
J. David Upchurch
Services: Universal Navigation Corporation manufactures and markets the UNS-1 Flight Management and Navigation Management Systems along with supporting navigation sensors.

University of Southern California
ISSM-Professional Programs
3500 S. Figueroa St. - Ste. 202
Los Angeles, CA 90007
☎ 213-743-6523 ■ 181101
Director of Aviation Safety Programs:
Richard H. Wood
Chairman/Safety Science Dept.:
James O. Pierce
Aviation Program Specialist:
Lauretta A. Gin
Registrar: Nora Alamazan
Services: Aviation safety courses for the international community in several multi-disciplinary areas: Investigation, Technology, Safety Program Management, Human Factors, Communications & Maintenance.

USAIG (United States
Aircraft Insurance Group)
One Seaport Plaza
199 Water Street
New York, NY 10038
☎ 212-952-0100 ■ 129206
President/CEO: John V. Brennan
Executive Vice President:
George W. Meehan
Vice President, Marketing:
Richard R. McGreal
Services: Aviation insurance.

Uscan Aviation Sales Limited
Rural Route #4
Alliston, ON, L0M 1A0, Canada
☎ 705-435-4031 ■ 06-875521
President: Douglas V. Beamish
Services: Component & spare parts repair & overhaul, airframe repairs, Bell 47, 206, 212 service facility.

Vac-Aero International, Inc.
1371 Speers Road
Oakville, ON, L6L 2X5, Canada
☎ 416-827-4171 ■ 06-982313 ♦ 416-827-7489
President: R.E. Pritchard
Vice President: J.H. Hooper
Metallurgical Engineer: J. Pritchard
Sales Manager: Alan Jephcott
Manager, Repair and Overhaul:
Stacey G. Stoykewich
Services: Repair and overhaul of turbine engine components (eg. Allison 250 series diffuser valve assembly). In house facilities include machining, vacuum heat treatment, brazing and electron beam welding.

Vancouver Heliport Services Inc.
455 West Commissioner Street
Vancouver, BC, V6B 5ES, Canada
☎ 604-688-4646
Manager/Marketing & Public Relations:
Barry J. Janyk
Director of Technical Operations:
Harold K. Marsden
Director: David J. Oliver
Director: Iain R. McLellan
Services: Manage and operate the only public downtown heliport in Vancouver, British Columbia, Canada.

Vanic, Inc.
4324 Edgewater Drive
Orlando, FL 32804
☎ 305-291-8864
President: Sharon Van Camp
Vice President/Public Relations: B.L. Brown
Services: Manufacture and distribution of safety steps for Bell Helicopter 206 series on highskid gear.

Velcon Filters, Inc.
1750 Rogers Avenue
P.O. Box 6828
San Jose, CA 95112
☎ 408-436-6525 ■ 346482 ♦ 408-436-7612
President: L.W. Taylor
V.P., Sales & Marketing: Richard Taylor
Marketing Services Manager: Marla Siegel
Aviation Product Manager: Rick Waite
Services: Filtration products for aviation fuel cleanliness.

Vertical Aeronautics, International
6911 Hayvenhurst Avenue, #201
Van Nuys, CA 91406
☎ 818-901-1434
President/CEO: Lee Ambers
Services: Site selection, design & governmental intercourse of private & public use heliports including supply of heliport accessories.

Voljet International Corp.
Essex County Airport
125 Passaic Avenue, Box 29
Fairfield, NJ 07006
☎ 201-227-1262
President/CEO: Keith Thompson
V.P. Marketing: Terry S. Jones
V.P. Operations: Kenneth F. Stewart
Technical Director: Eugene K. Liberatore
Services: Development, manufacture, sales and distribution of air pressure jet (TM), tip-driven helicopters.

Wall Colmonoy Corporation
2226 W. Malone Avenue
San Antonio, TX 78225
☎ 512-924-5061 ■ 810-243-4048 ♦ 512-924-0129
President: Joe Maria
Plant Manager: Ted J. Szafraniec
Customer Service: Kathy Lee
Services: Recondition, overhaul or repair of aircraft turbine and reciprocating engine parts, exhaust systems, heaters and brake components.

Weco Inc.
Aerospace Systems
P.O. Box 547
Lincoln, CA 95648
☎ 916-645-8961 ■ 69 8522 ♦ 916-645-1547
Board Chairman/CEO: Harold W. Weygandt
President: William H. Weygandt
Vice President/Finance: Robert M. Weygandt
Director of Marketing: Robert Atkisson
Services: Sales and service of electrical accessories--inventory of complete units and parts -- F.A.A. Repair Station No. 461-67 and domestic international sales.

Weco Inc.
Aerospace Systems
P.O. Box 6547
Burbank, CA 91510
☎ 818-845-8711 ■ 69-8522 ♦ 818-845-2972
General Manager, Burbank: Jerry E. Kuwata
Services: Sales and service of electrical accessories--inventory of complete units and parts--F.A.A. repair station No. 461-67 and domestic/ international sales.

Weld-It Company
4477 Sheila Street
Los Angeles, CA 90023
☎ 213-263-7524
President: Sheldon Schaffer
Vice President: Raymond Schaffer
Sales/Marketing: James Wyscarver
Services: Weld-it provides refueling & tank/ground support.

Western Aircraft Maintenance Inc.
Morrison-Knudsen Co., Inc.
4444 Aeronca Street
Boise, ID 83705-5090
☎ 208-386-6565 ■ 368439 ♦ 208-386-7186
President/CEO: Al Hoyt
Helicopter Dept. Manager:
Wayne E. White
Manager, Quality Assurance:
Ralph Chadburn
Services: Overhaul Specialists: Aerospatiale Astar, Twinstar, Alouette, Lama, Gazelle, component overhaul, parts. Also, provide Bell 206 overhaul and Allison 250 series II engine overhaul.

Western Gear Corporation
Subs. of Lucas Industries Inc.
1235 Jefferson Davis Hwy. - #406
Arlington, VA 22202
☎ 703-892-1673 ■ 710-955-1184
Director of Sales: Frank D. Taylor
Public Relations: Tom Vanides
Product Manager: Rich Pellegrini
Sales Manager: Don Waite
Services: Design, development and manufacturing of systems and components for both commercial and military aerospace applications.

Western Wings
2132 N.W. Mulholland
Roseburg, OR 97470
☎ 503-672-7765 ■ 151112
President/Chief Executive Officer:
Bill R. Woods
President/Helicopter Division:
Roger Schuster
Vice-President: Patti Woods
V.P./Public Relations: Stephanie Simmons
Services: Largest used Hughes helicopter dealer in the world.

Westland Helicopters Ltd.
Yeovil
Somerset, BA20 2YB, England
☎ 0935-75222 ■ 46277 ♦ 0935-46277
Managing Director: John Varde
Engineering Director: Richard Case
Head of Marketing Services: David Gardner
Head of Public Relations: Ian Woodward
Services: Helicopter design and manufacturer. Helicopter product support worldwide except North America.

Westland Inc.
1735 Jefferson Davis Highway
Suite 805
Arlington, VA 22202
☎ 703-486-8000 ■ 901152 ♦ 703-685-0063
President: Robert Gladwell
Vice-President: Jeffrey Fausett
Vice-President Customer Support:
John Driver
Services: Helicopter and Aerospace design and manufacturer, marketing, sales, product support for North America.

Yehnert Helicopter Inc.
1049 Airport Drive
Upland, CA 91786
☎ 714-985-3618
President: B.E. Yehnert
Secretary-Treasurer: Arlene M. Hartman
Services: Helicopter repair and modification.

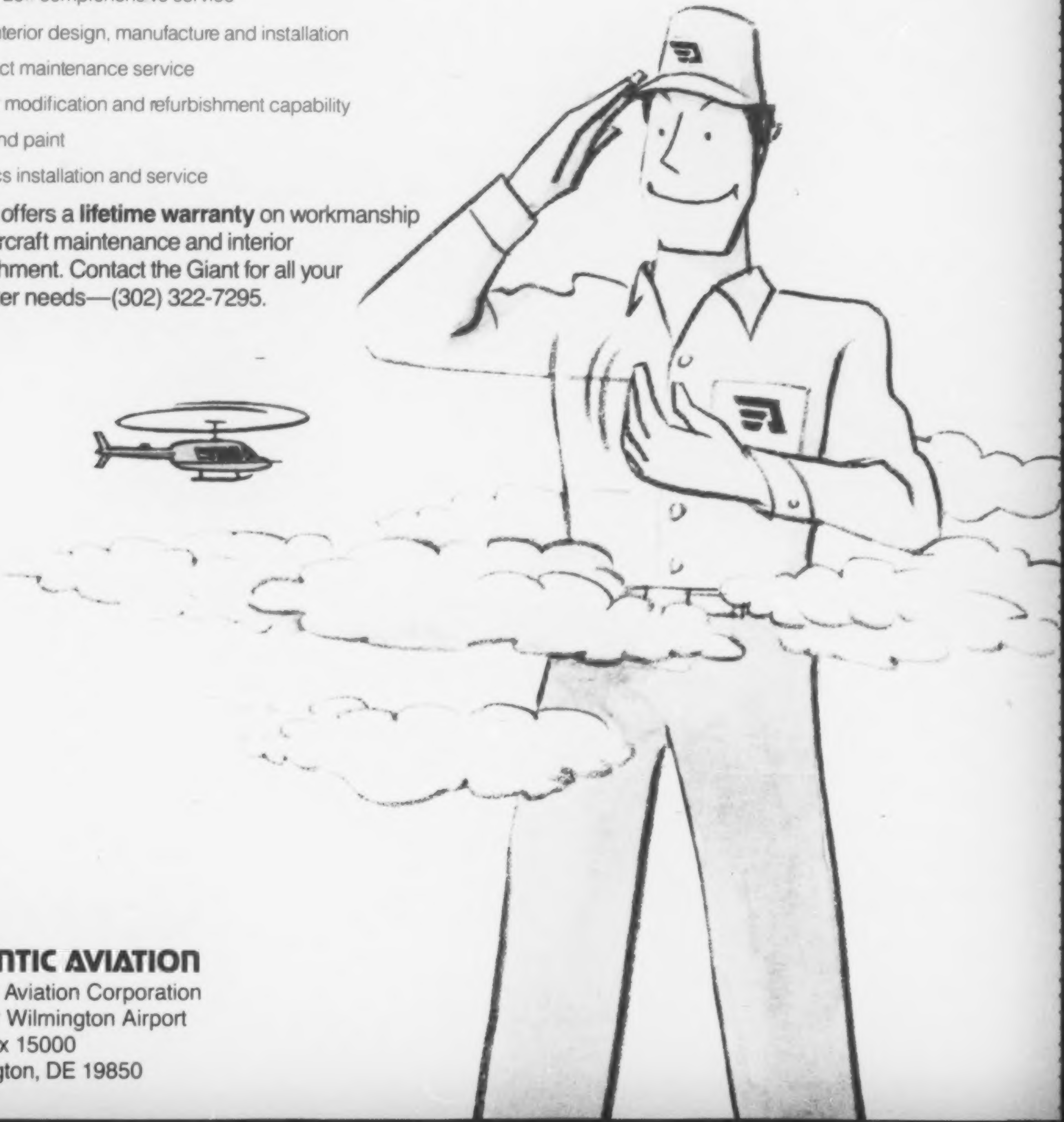
ZICKA-OMNI Capital Associates
8175 Hetz Drive - Box 212
Cincinnati, OH 45242
☎ 513-489-8668
General Partner: Raymond H. Coger
Services: Purchase, sale, lease and leaseback of all types of helicopters, both new and used.

COMPLETE HELICOPTER SUPPORT FROM THE GIANT IN BUSINESS AIRCRAFT SERVICES

Atlantic Aviation now offers complete helicopter maintenance and support at its Wilmington, Delaware (ILG) facility, including:

- Factory authorized service center for Aerospatiale, Bell and MBB helicopters
- LTS-101 factory authorized service
- Allison 250 comprehensive service
- EMS interior design, manufacture and installation
- Contract maintenance service
- Interior modification and refurbishment capability
- Strip and paint
- Avionics installation and service

Atlantic offers a **lifetime warranty** on workmanship on all aircraft maintenance and interior refurbishment. Contact the Giant for all your helicopter needs—(302) 322-7295.



ATLANTIC AVIATION

Atlantic Aviation Corporation
Greater Wilmington Airport
P.O. Box 15000
Wilmington, DE 19850

Directory of Affiliate Members

The following alphabetical listing of Affiliate members contains national, regional, and international organizations whose purposes and interests are similar to those of HAI. The ■ indicates the telex number and the ♦ indicates the organization's facsimile(fax) machine number

Aero Club of Moscow - Federatsia
Aviatsionnogo Sportasssr
B.B. 395
Moscow - D-362 - U.S.S.R.
Director: Yuri Postnikov

Airborne Law Enforcement Association (ALEA)
601 East Lafayette Street
Baltimore, MD 21202
☎ 301-396-2431
President: R. R. Raffensberger

Alaska Air Carriers Association (AACA)
4134 Ingra
Anchorage, AK 99503
☎ 907-562-1272
President: Bob Engelbrecht

American Helicopter Society (AHS)
217 N. Washington Street
Alexandria, VA 22314
☎ 703-684-6777 ♦ 703-739-9279
Executive Director: John F. Zugschwert

American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS)
612 Pennsylvania Avenue
San Diego, CA 92103
☎ 619-542-0388
Executive Director: Nina Merrill

Appalachian Helicopter Pilots Association (AHPA)
Route 5 - Box 40
Blountville, TN 37617
☎ 703-889-4000
President: Bill R. Starnes

Bay Area Heliport Council
c/o Aris Helicopters
1138 Coleman Avenue
San Jose, CA 95110
☎ 408-998-3266
Chairman: Stephen R. Sullivan

British Helicopter Advisory Board
Building C-2, Fairoaks Airport
Chobham
Surrey GU24 8HX, England
Chief Executive: J.P. Durrant

Eastern Region Helicopter Council
c/o American Express Co.
Hangar E - Westchester Airport
White Plains, NY 10604
☎ 914-948-5388
President: Ron Lombardo

European Helicopter Operators Committee (EHOC)
c/o KLM Helicopters B.V.
P.O. Box 7700
Schiphol East - 1117 ZL
The Netherlands
☎ 20-491339 ■ 14233
Chairman: Frans Bokma

General Aviation Association (Australia)
452 Stinson Crescent
Bankstown Airport, N.S.W.
2200 - Australia
☎ 02-709-2385 ■ 122247
Secretary: Barry Thompson

German Helicopter Association
Rossmarkt 10
6000 - Frankfurt
West Germany
☎ 069-29-90-06
President: Bernhard Liscutin

Groupement Francais de L'Helicoptere
6 Rue Galilee
Paris, 16, France
President: Lionel Poilane

Harbour Heliport Society
P.O. Box 94222
Richmond, BC, V0N 1B0, Canada
☎ 604-273-4688
Secretary: Ken Glaze

Helicopter Association of America (HAA)
1619 Duke Street
Alexandria, VA 22314-3406
☎ 703-683-4646 ■ 89-615 ♦ 703-683-4745
President: Frank L. Jensen, Jr.

Helicopter Association of Australia
P.O. Box 346
Revesby, N.S.W.
2212 - Australia
☎ 02-709-4494 ♦ 02-707-2044
President: Guy Lloyd

Helicopter Association of Florida
4608 SW 119th Terrace
Cooper City, FL 33330
☎ 305-434-1760
President: Don Mitchell

Helicopter Association of Southern Africa (HASA)
P.O. Box 18045
Rand Airport, 1419, South Africa
☎ 11-827-2516 ■ 429807
Executive Director: Cor Z.A. Beek

Helicopter Environmental Liaison Office (H.E.L.O)
P.O. Box 41
Puunene, HI 96784
☎ 808-244-7511
Executive Director: Tony D'Antonio

Helicopter Foundation International (HFI)
1619 Duke Street
Alexandria, VA 22314-3406
☎ 703-683-4646 ■ 89-615 ♦ 703-683-4745
Director: Robert C. Kerner

Helicopter Operators of Texas
P.O. Drawer 785
Porter, TX 77365
☎ 713-354-2146 ■ 775-563
President: Dr. Darrell T. Elkins

Helicopter Safety Advisory Conference (HSAC)
c/o Tenneco, Inc.
16951 JFK Boulevard
Houston, TX 77032
☎ 713-757-8100
Advisor: Lynn Clough

Metroplex Helicopter Association
P.O. Box 111083
Arlington, TX 76007
☎ 214-330-8167
President: Frank Kearney

Michigan Helicopter Association
P.O. Box 2613
Southfield, MI 48037
☎ 313-666-3131
President: Dennis H. Neubacher

Mid-Atlantic Helicopter Association (MAHA)
1611 N. Kent St., Suite 905
Arlington, VA 22209
☎ 703-243-3633
President: Jack Thompson

National Broadcast Pilots Association (NBPA)
c/o KUSA-9 TV
1089 Bannock Street
Denver, CO 80204
☎ 303-893-9000
Founder: Leo Galanis, Jr.

National EMS Pilots Association (NEMSPA)
P.O. Box 2354
Pearland, TX 77588
☎ 713-997-2563

Executive Director: Don Wright

National Flight Nurses Association (NFNA)
P.O. Box 8222
Rapid City, SD 57709
☎ 605-343-4464
President: Mrs. Carol Wichman, R.N.

New England Helicopter Pilots Association
P.O. Box 88
Bedford, MA 01730
☎ 617-274-0030
President: George F. Vincent

Northwest Helicopter Association
c/o EMS Helicopters
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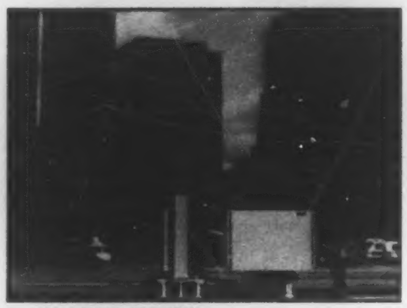

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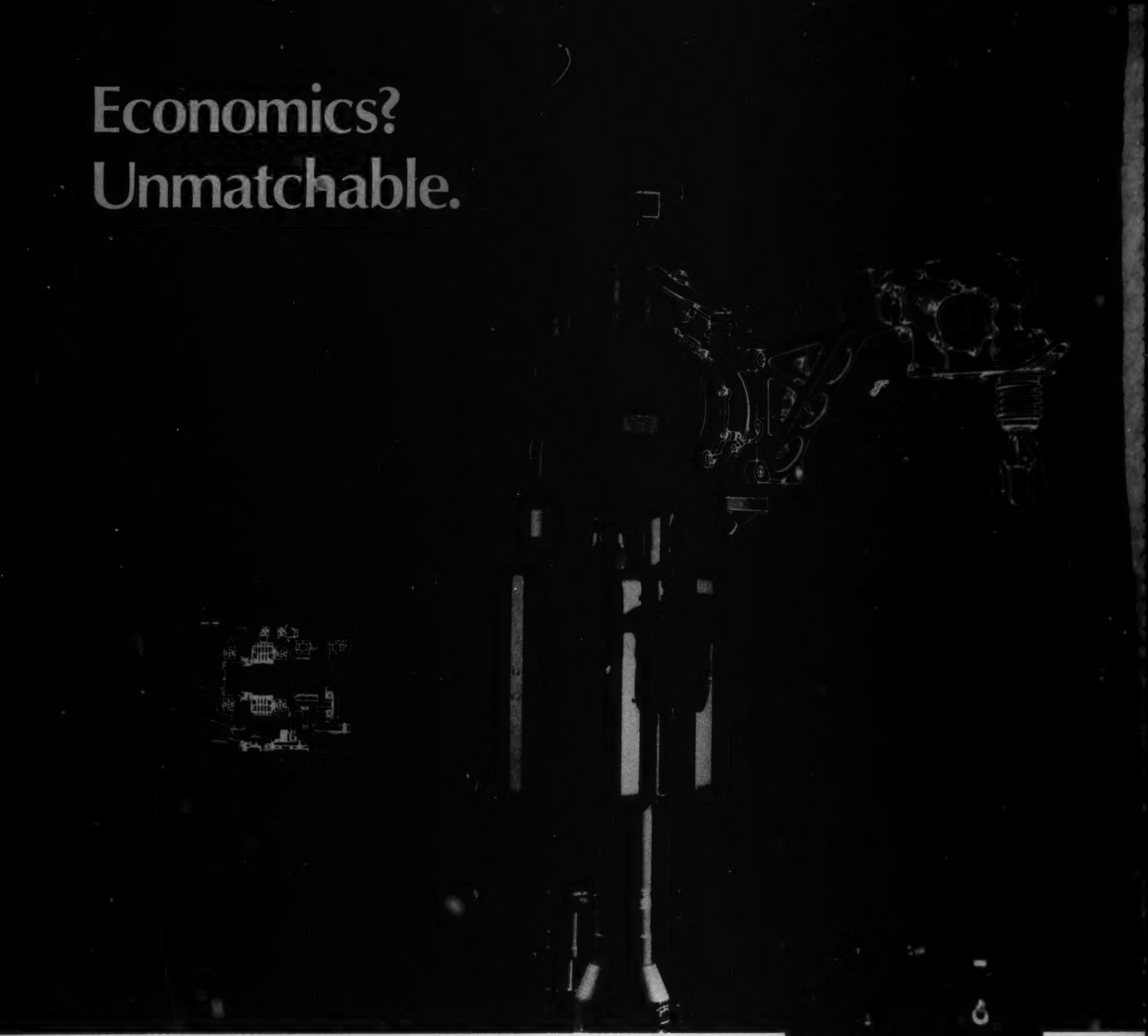

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EDITORIAL

HELICOPTERS

ABOVE ALL...SAVE LIVES

HELICOPTER ASSOCIATION INTERNATIONAL

Statistics: How to Understand the Message

by
Richard J. Adams
Vice President
Advanced Aviation Concepts, Inc.

Interpreting statistical data is not generally regarded as an emotional experience. Yet, when it comes to the issue of accidental death, quite often the more dangerous, more frequent but less dramatic events receive less attention. Consider the following two examples and try to make your own interpretation of their statistical message.

According to the Federal Center for Disease Control, 2 million people acquire infections in hospitals annually. Of the 2 million, 5% or 100,000 individuals die. Does this mean we should avoid hospitalization if at all possible or close down the worst offenders?

According to a recent National Transportation Safety Board report, 14 helicopter air ambulance accidents occurred in 1986. These 14 accidents resulted in 13 fatalities and 14 injured individuals. Does this mean we should avoid helicopter transport if at all possible, or close down the repeat offenders?

The answer to all four questions is obvious: NO! What is needed to solve both problems is additional knowledge, a solution based on current skills and vigilant awareness of where, when, and how the problems may occur.

For example, over the past 40 years over 1 million lives have been saved by the helicopter, both civil and military. In 1986, 75,000 civil helicopter patient transports were performed in the U.S. With this additional knowledge, the 14 accidents translate into a .0002 exposure rate of accident probability per transport.

The remainder of this article provides knowledge to assist anyone interested in helicopter safety with the proper perspective on what causes accidents. In addition, it is hoped that this knowledge will be sufficient to motivate the development of safety programs founded on understanding and a dedication to vigilant awareness.

What is safety? Safety can be defined as the identification and control of risk according to a preconceived plan. Pilots are well aware of the risks associated with flight, but evidently they have been unable to formulate an effective plan.

Historical Perspectives. Consider the following statistics:
- Some type of aircraft runs out of fuel somewhere in the U.S. every other day.
- Inadvertent penetration of IMC is the primary cause of all fatal accidents, helicopter or fixed wing.
- Pilot error accounts for 64-90% of all aircraft accidents including fixed wing, helicopters, civil and military.

Each of these primary accident facts has remained unchanged for the past 20 years. During this same time periods accident rates due to material failure have been dramatically reduced. Let's consider what this means?

Motivation. Pilots by nature are goal-oriented individuals. This characteristic adds self-induced (for the most part) pressures to the accident risk elements. Pilots feel compelled to:

- Make a flight when requested
- Complete the flight as planned
- Please people (VIP's, Passengers, Family)
- Meet schedules
- Impress peers ("Right Stuff")

Operating Environment. Helicopter pilots fly at very low altitudes. A recent FAA survey found that nearly 75% of the operations occur below 1500 feet. They typically perform four times as many takeoffs and landings per flight hour compared to fixed wing aircraft. It is precisely during these typical operations that the highest risk elements occur. These are:

- Unforecast local weather phenomena
- Obstacles
- Visibility restrictions
- Powerplant requirements (takeoff)

Qualifications/Experience. Yet, the pilots are mature professionals. The same FAA survey found that 70% are instrument rated and 76% have commercial certificates. Also, the NTSB data for 1978-86 showed that the majority of pilots involved in fatal helicopter aeromedical accidents were 6000 hour instrument rated pilots; however, less than 10% of them were current.

Accident Statistics. Armed with this background information, let's look at some enlightening statistics. The past 10 years of helicopter accident data shows that 83% of the accidents are caused by errors in operational technique and decision making (42.2% and 40.8% respectively). These account for roughly 262 accidents annually or 218 due to these two causes.

In the operational technique category, failure to maintain rotor rpm, loss of flight control and failure to avoid obstacles account for 92% of the "pilot errors." However, looking further, the failed to maintain rotor rpm accidents involve failed autorotations, fuel exhaustion, fuel contamination and engine failure. Three out of four of which are basic flight training and judgement/decision-making related.

In the explicit decision-making cause factor, accidents (107/year) 55% are caused by poor preflight, lack of situational awareness and fuel mismanagement. At this point you might want to refer back to the first three "historical" bullets.

What is the message of all of these statistical indications? Basically, they are trying to tell all of us that pilot error accidents, including emergency medical services, can be reduced. But in order to achieve this goal several basic training and operating procedures must be irrevocably modified. A summary of my interpretation of the statistical message is that:

1. Realistic multiple failure training and proficiency exercise must be developed.
2. Pilots must be taught how to be better system monitors and what the human limitations are in a monitor role.
3. Situational awareness, hazard recognition and risk assessment must be stressed on an equal level with flying skills, navigation, communication and knowledge of the regulations.
4. Safe alternative actions to the leading pilot error accident causes and chains of events must be taught and kept in the foreground of daily flight planning/decision making.

In case you've done everything right and still you find yourself overexposed to risk, have a reflex reaction plan for inadvertent IMC, running out of fuel, and obstruction avoidance. In the event something does happen, stick to your plan!

Mr. Adams received his B.S. in Aeronautical and Astronautical Engineering from the University of Illinois in 1965 and his M.S. in Mechanical Engineering from the University of Florida in 1968. He is a registered Professional Engineer in Mechanical Engineering in the State of Florida and a private pilot. Mr. Adams has been involved in civil aviation research and development for over 22 years. He has written over fifty (50) technical reports, articles, and papers in the fields of pilot training, pilot workload, accident data analysis, avionics, navigation, aircraft energy conservation, air traffic management, propulsion and controls. Since 1979, Mr. Adams has specialized in the technical and operational problems of the civil helicopter operator. Studies have been performed for the FAA, NASA and the U.S. Army in the areas of safety, decision-making training, pilot error accident analysis, Terminal Instrument Procedures (TERPs), heliport design, helicopter performance modeling, autorotation procedures, icing, helicopter ATC and low altitude navigation requirements.

HAI Committees...Working Together

by
Vernon E. Albert,
HAI Vice Chairman and
Chief Pilot/Vice President
Petroleum Helicopters, Inc.

Calendar year 1987 was an active and productive one for the HAI Committees. The first half of the year saw every chairman produce new terms of reference for his committee. These new terms of reference have allowed Chairman Sullivan to standardize committee roles, memberships and activities. I would be remiss if I did not bring special attention to Ted Dumont who performed his usual magic in combining all this information into a format that the Board could work with.

HAI committees have been responsible for everything from forming the very successful EMS Safety Seminar prior to HAI's Annual Meeting and Industry Exposition, to responses to congressional actions which have already benefited us all and will continue to do so. We currently have a great deal of effort going into MEL's (minimum equipment lists) for single-engine helicopters and assisting in developing a usable Heliport Design Guide. Many of the committee chairmen would be at a loss without the help of the fulltime HAI staff, who work many hours assisting in the administrative role and we salute them!

Where and how do the committees get their energy? From you, the members! As in most organizations, it seems that we always see and hear the same people. Every member of HAI benefits from these activities, and I invite every one of you to get involved in a committee that serves your area of interest. The way to get the results that benefit you most is to get involved.

Special Assistants

The Board of Directors, who ultimately oversee all committee activities, rely greatly on the help of three knowledgeable special assistants. Joe Mashman, Ted Dumont, and Walter Comeaux give many volunteer hours lending their expertise in support of HAI activities. Without them, we would require a greater staff or more members on the committees. It is interesting to note that Joe and Ted are retired and Walter is in a non-aviation profession; but because of their dedication to helicopters, they serve. We on the Board sincerely appreciate the cooperation and dependability of the people who do so much.

We are now entering into the third year of cooperative activities with the American Helicopter Society. Since 1985, the HAI and AHS Executive Boards have met during their respective annual meetings to discuss mutual points of interest. This interface will be instrumental in combining helicopter activities from engineering to operations and, hopefully, creating a much needed positive image for helicopters.

Board Most Active

If the truth be known, the most active committee is your elected Board of Directors. You as members elected these volunteers to serve you. They, in turn, need your input and support to continue doing what you elected them to do. Your voice can be heard through your participation in committee activities.

Together, 1988 can be our most successful and fulfilling year. Let's all pitch in.

Mr. Albert began his aviation career in the Army in 1963 where he served as both helicopter pilot and flight instructor. He joined Petroleum Helicopters, Inc. in 1967 as a pilot and instructor. He presently holds the position of Chief Pilot and Vice President of the company. Mr. Albert has been very active in HAI over the years serving as Chairman of the IFR committee, on the Board of Directors, and as Treasurer. He is currently Vice Chairman of HAI.

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What Professionalism is All About

by
Loren E. Doughty
Chief Flight Instructor, Test Pilots
Bell Helicopter Textron, Inc.

The general public becomes very concerned when they read the newspapers and see headlines like "Near Collision over the Atlantic," "Aircraft Lands on Wrong Runway in Boston," "Aircraft Lands at Wrong Airport" or "Pilot Turns off Both Engines on Take-Off." In this day and age with all the sophisticated equipment and high technology onboard an aircraft to keep the pilot informed of position, altitude and emergencies, mistakes are still taking place; mistakes that are difficult to understand. The pilots are being blamed for everything from complacency to incompetence. Whatever the problem, the general public is losing confidence with aviation and the aviation system. Something needs to done immediately to turn public opinion around.

Answer is Professionalism

The National Transportation Safety Board (NTSB) best explained it when they said, "The answer to the human error element is professionalism and training." Professionalism in terms of the way people conduct their jobs, their daily lives, and their flying responsibilities, i.e. conducting them in a positive, intelligent and disciplined manner. Pilots should not be offended when it is said, "strive to be more professional," because, as professional pilots, we must periodically evaluate ourselves to assure 100% performance at all times. This is very important because not one pilot leaves his or her home in the morning planning on having an accident; but something can happen during the course of time that gets them into a difficult position. Either the aircraft gets them into a terrible situation or they get themselves into trouble. Through professionalism and good training a pilot can get out and stay out of potential trouble.

Human Mistakes

One must remember that a large percentage of aircraft accidents are caused by pilots making human mistakes-- mistakes in judgement, knowledge and understanding. These mistakes are not new; but today we realize these are vulnerable areas that need attention. Through training these areas can be strengthened and improved. As pilots, there are definite steps and precautions that can be taken to keep professionally fit. The first is a strong, positive attitude.

A positive attitude will change a pilot's habits, a pilot's situational awareness and a pilot's approach to flying performance. Just because a particular pilot has a lot of hours does not mark him as a professional. There is a lot more to it than that. A good attitude, combined with knowledge, skill, hard work, planning and study are the marks of a true professional.

As professionals, we must constantly train and maintain the knowledge we already possess while reaching out and acquiring new information. Pilots should constantly ask themselves if they have the knowledge and understanding of all the systems on the aircraft that they are flying. Do they know all the procedures for each emergency stated in the flight manual? Is the information readily available in a pilot's mind to call upon it at moment's notice? The information is out there, the pilots must go after it.

Pilots must constantly work on developing and maintaining their flying skills, both VFR and IFR. Pilots must periodically return to the basics of flight to build their advanced skills. That is the basic skill of keeping one's head out of the cockpit. If a pilot plans on an IFR flight, then proficiency, not only in skill but in knowledge, is paramount. Pilots cannot go inadvertently IFR and survive unless they are current and proficient in IFR flying.

Discipline Needed

Professional pilots must discipline themselves to work in today's complicated aviation system. Pilots must stay abreast of the current FAR's and the FAR changes. They must read and study the aircraft flight manual frequently. Pilots must know what their capabilities are and must discipline themselves not to exceed them. When their limits are reached they must not push themselves beyond that point and into a dangerous situation.

As pilots, we have three common failings. First, people tend to be prouder of a willingness to take a chance than of an observance of caution, and carefulness. Second, people tend to use powers of logic and reasoning to find justification for things they want to do, rather than using them to determine what is best to do. Third, people will risk losses out of all proportion to possible gains if they feel that through their skill and luck they can probably avoid the loss.

If you were to sit with a pilot in his or her living room and give him the above three situations, they would tell you they would do the safe thing. But actually put them in one of the above situations and see what they do. The chances are excellent they will gamble. It is human nature. It comes back to the old conflict of knowledge versus desire. Through knowledge, skill, discipline and judgement, a pilot will not place himself in a gambling situation.

Being a pilot is a hazardous profession but it is only as hazardous as you want to make it. Control or discipline the temptations and be aware of the traps human nature has laid for you-- it may save your life. Perform at 100% capacity at all times. That is what professionalism is all about.

Mr. Doughty has been with Bell Helicopter Textron for over twenty years. For the first four years he was a production test pilot on the Bell AH-1 Cobra. For the last sixteen years he has been in charge of all the flight training conducted at Bell Helicopter. In those sixteen years, approximately 14,000 pilots have been trained at Bell and over 31,000 pilots and maintenance people have been through the Bell school. Mr. Doughty's aviation career started twenty-five years ago when he graduated from the University of Iowa and obtained a private airplane rating through the R.O.T.C. flight program. After five years in the military he was employed by Bell Helicopter as a production test pilot and has accumulated nearly 14,000 hours of helicopter flight time. In addition to his training responsibility, he has served the past ten years as an FAA designated pilot examiner for all helicopter ratings from Private to ATP, CFI, CFII and Type. He also was elected and serves as HAI Safety Committee Chairman. He travels throughout the country giving safety presentations on behalf of Bell Helicopter, HAI and the FAA.

Heliport Design -- Information Sources

by
Dr. John W. Leverton
Manager of Operation Development and
Environmental Projects
E.H. Industries, Inc.

Heliport design, from purely technical considerations, is relatively straight forward once the "largest" helicopter to use the site has been identified. There are, however, a number of easily overlooked facets which can greatly influence the details of helicopter design. This article discusses these important facets of heliport development.

First, let us examine the two main sources of information regarding heliport design. The first, and from the regulatory viewpoint the most important, is the FAA Advisory Circular 150/5390-2: Heliport Design Guide. Currently in wide use, the Advisory Circular was issued in 1977 and contains basic heliport requirements. A new guide, to be issued shortly, makes use of much of the earlier information but, unlike the original guide, considers private use and public use heliports separately. The other source of information is the HAI Heliport Development Guide. This guide covers not only technical aspects of heliport development, but also gives general information regarding noise assessment, location and financial aspects. In addition, members of the new HAI Heliport Technical Planning Committee as well as HAI staff are available to give technical advice and assistance.

Now that the written sources have been identified, let us explore more subtle points of heliport development that may not be listed in the two sources.

Heliport Design - Points to be Considered

The most important element in heliport development is public response and ultimately, public acceptance. In this context it is strongly recommended that consideration be given at the earliest stage to establishing a Heliport Action Group along the lines suggested in FAA AC 150/5050-7 to increase the community support and provide a forum for exchange of information.

From the public's perspective, the issues in order of importance are: noise, safety and flight routes. Routing into and out of the heliport is important not only in terms of obtaining public acceptance, but also since if not chosen wisely, difficulties can arise once the heliport is established.

Public reaction is also greatly influenced by the professional appearance of any heliport. Attention to detail and a well designed structure creates an atmosphere of confidence. Conversely, the use of available yet shabby mobile trailers/buildings leads the public to believe the developer is unprofessional and unmindful of his surroundings.

In many locations, inclusion of space for non-essential heliport services such as a restaurant can be useful in gaining public acceptance for the heliport. Although not many have exploited this concept, a restaurant is not only a good revenue source, but it can provide an effective interface with the local community.

Consider Future Needs

The heliport designer/developer needs to give consideration to both the initial and future needs/use of the heliport. Unfortunately, in the case of private heliports there is a reluctance to do this and, instead, they simply opt for a minimum standard/minimum size site without consideration of the long-term potential.

This does not mean that the designer has to consider a sophisticated heliport, since a well laid out grass area, with no obstructions, can be enough to obtain public support. Even so, there is a tendency for developers of small, private sites to feel that if they are more ambitious, the heliport will be less acceptable and more costly. This would not be the case if allowances for years of expansion were "designed into" the heliport.

Public heliports on the other hand often serve the other extreme-- the developer/consultant takes the worst case and predicts 50,000 movements a year with S61's, which dictates large areas of land, large buildings etc., and as a result, the cost skyrockets. A more logical and modest approach would normally be quite adequate for many public facilities.

It is also vital that the intended use of any heliport-- short and long term-- be taken into account. The cost of land must be considered. For instance, it is not economical to provide a large number of helicopter parking spaces on expensive city center land. A more cost effective approach is to limit the site to one touch-down/take-off pad and two parking areas for "short term parking only." Helicopter parking can be a useful aid to revenue, but only if the land costs are relatively low. Similarly, service facilities, which normally involve hangar space, need to be carefully accessed. If it is intended to develop a large heliport then there is considerable economic merit in having hangar space to allow one or more FBO's to operate on the site. On the negative side, however, such facilities will have to be "first rate." This is not to suggest that heliports of the type developed at Indianapolis cannot be developed, but rather that such heliports require a unique set of circumstances to justify the development in a downtown area.

Location Critical

The heliport location is critical and, in addition to the helicopter operational considerations, one must take into account not only the minimum FAA requirements but also the desire of its customers to have a easy access to the local community. Prime locations are waters edge where take-offs and landings ca be made over local rivers or waterways. This type of operation enhances the safety considerably and will help to guard against those who feel that operational safety standards are often compromised.

In city locations (and appropriate remote areas) considerations should be given to obtaining support for the use of the heliport in time of emergency. In this case, the heliport would be designed in such a manner that it could take large military helicopters, become a command post or emergency center in the event of a natural disaster such as floods, earthquakes etc, or be used by police or ambulances in localized emergencies. This is one concept which has not yet been exploited but which has considerable merit. Such a heliport complex could be designed to provide a truly first class facility that could instantly respond to a local emergency.

Heliports on top of buildings also have merit; but here there are some design technique problems both from the point of view of transfer of passengers, weather considerations etc., and meeting the necessary "standards" related to fire protection and fuel spillage. Even so, providing reasonable approach/departure paths is possible particularly if a relatively small facility is envisaged. Also, use of a very high building often enhances safe operation of multi-engine helicopters and this is a positive aspect. On balance, however, except for private use, ground level sites are a better proposition.

In addition to the obvious and essential aspects of heliport development, safety, flight routes and noise, the heliport developer should consider the new, perhaps more subtle aspects of the heliport well before he puts his pen to the page for the first design. He must consider the heliport's structure, its future needs and uses, its affect on the community, and its possible contribution in times of emergency, and possibly also non-essential heliport services. Attention to these aspects of heliport development will result in greater public acceptance of the heliport.

Dr. Leverton is a recognized international expert in helicopter noise and related topics. He has twenty-five years experience with Westland Helicopter Ltd. as Apprentice, Design Engineer, Head of Acoustics, and Civil Regular Manager. He obtained his M.Sc. (Eng.) in 1965, and a Ph.D. in aero/acoustics in 1977 from the Institute of Sound and Vibration, Southampton University. He was closely involved with Westland Battersea (London) Pubic Heliport and other UK heliport developments for 15 years . Dr. Leverton transfered to the USA in 1983 to provide technical support to Westland Inc.'s U.S. office. He currently serves as Manager Operations Development and Environmental Projects with E.H. Industries Inc. where he is responsible for market development and technical promotion/support for the EH101 Rotorcraft program. He has been an active HAI member for many years, and served as Chairman of Acoustics Committee from 1984 to 1986. He is the current Chairman of the Heliport Technical Planning Committee. He is also a SAE A-21 member and ICCAIA representative to ICAO Working Group II.

A Call to Action

by
Stephanie V. Slavin
President,
Aviation Business Consultants, Inc.

The age of the helicopter has finally arrived. Yes, pioneer Igor Sikorsky made the same bold statement forty years ago. But, just as missing technology kept him from inventing the rotorcraft in 1909, so too have factors critical to the widespread use of helicopters been missing for these past four decades. Today, those factors of technology, demographics, and economics have converged to make the helicopter the right idea at the right time.

Now the question is, how do we get travelers to consider helicopters as indispensable as xerox copies and express mail? To find that answer, let's take a lesson from management guru Peter F. Drucker, and ask ourselves: What is our business? Who are our customers? And what is our product?

More Than Transportation

The debut of the Sikorsky S-76 in 1977 indicated that at least one manufacturer had recognized that helicopters meant more than just transportation. This helicopter was designed primarily for Fortune 500 companies for whom time and accessibility mean greater profits. Think back to 1984 when Sikorsky's Strategic Planner, Dave Lawrence, told how he had determined the value of the helicopter to business, and the value of a business to its community. He revealed that a typical corporate headquarters contributes $100 million annually to its host city, and seeks to locate in cities which permit heliports. Big business was wasting money when its executives were tied up in ground or airport traffic. Using helicopters has enabled them to do more business in less time. Successful helicopter operators have recognized what our true business is; thus, they have convinced many companies beyond the Fortune 500 that helicopters are tools for **enhancing productivity**.

Once we know our direction, then it becomes obvious who our customers are: business people. For too long, our industry-wide efforts have been aimed at elected officials. Only occasionally have we succeeded in encouraging city leaders to sponsor a downtown heliport-- the foundation of helicopter accessibility. But why should they support our cause? How does a politician directly benefit from creating a heliport?

Major New Business

My company has convinced a few cities that developing a helicopter transportation system could attract major new business. But even then, we have rarely achieved the enthusiasm, commitment, and spontaneous leadership that must exist in order to successfully launch such an innovative effort.

If we were to sell our "enhancing productivity" package to the business market as actively as we have been promoting helicopter transport to deaf political ears, we might create a clamor of support. Let the voters who elect politicians tell them what is wanted and needed. Cost ceases to be a deterrent when optimal benefits are the obvious goal. According to John Naisbitt's Megatrends, major societal changes now come from the bottom up, rather from the top down... from the people rather than from the government.

Excited About Helicopters

In numerous speaking engagements before American corporations, I have found that people are excited about helicopters. They envision quicker trips to the airport, intercity and intracity courier/package services, and catching a "helitaxi" to wherever they want to go. A recent nationwide survey discovered that business people do indeed perceive helicopters as a solution to their travel frustrations. Of the 79% responses, 33% indicated that they would fly a helicopter airline "if it were the fastest method," and 38% would if it "cost about the same as a taxi."

As we have seen with xerographic copies, express mail, and even helicopter EMS, that which minimizes effort and maximizes productivity gets rapidly utilized beyond all expectation. Trains and airplanes each started out carrying only wealthy travelers and business people. With technological advances, widening commercial markets, and the need to travel quickly, seats filled up on the trains and planes, and soon the companies expanded their services to the entire population. Can we foresee that helicopters will follow this same evolution?

Promote Right Product

What we need to do is to promote the right product: the helicopter transportation system. Position this single basic concept in people's minds-- heliports are merely a building block of the system. Focus primarily on the benefits that helicopters can provide, and networks of urban heliports should automatically follow. But, how do we reach the business community which has the political clout necessary to convince politicians to create helicopter transportation systems in every city? By creating a program-- financed by helicopter manufacturers and sponsored by HAI-- to demonstrate helicopters to large and small companies across the U.S. Let's show them our fastest, quietest rotorcraft; fly them in ships which have aisles, baggage racks, and carry seventeen passengers; let them see and feel what already exists. Show them how they can overfly traffic snarls, avoid saturated airports, and add two or three appointments to their day.

Paint the picture of a heliport five minutes from home where helicopters arrive every 10-20 minutes to take them downtown, to outlying offices, or to their distant customers along the heliport network. Describe how they can follow the national trend of living further away in exurbia yet still have a reasonable commuting time to work. We have the solution to today's transit problems. What we have to do is to tell the marketplace that we understand their problems and have a product to fill their needs.

Our business is enhancing productivity; our market is American business; our product is the helicopter transportation system. By pooling the resources within HAI -- manufacturers, helicopter operators, heliport developers, et al -- we can make the helicopter the next rapid transit system. This is the age of the helicopter. Will we rise to the challenge?

Ms. Slavin is president of Aviation Business Consultants, Inc. a Florida-based company which develops heliports for cities, hospitals, international airports, and corporate office parks. A 1971 graduate of Purdue University, she holds a B.S. in Microbiology, and ASMEL, instrument, CFI flight ratings. Her helicopter involvement began in 1977, and she is presently pursuing a turbine rating in a Bell JetRanger. Of Ms. SLavin's 17 years in the aviation industry, eight were with the FAA in Air Traffic Automation, Aircraft and Airports Safety, and Technology Exchange. In 1985, she was nominated for a Presidential Appointment to the NTSB. Today, Ms. Slavin speaks professionally to U.S. business about the benefits of using helicopters. She also writes for public magazines and aviation publications. A series of her articles about the U.S. helicopter industry is appearing in the 1987 and 1988 issues of China Aviation Journal.

The Commercial Helicopter Industry... A Perspective

by
David O. Smith
President, MBB Helicopter Corp.

The decade of the 1980's will be remembered by the eight major helicopter manufacturers as the period when the total number of commercial and military helicopter shipments traded places. Figures 1 and 2 depict this significant reciprocity. The upturn in military deliveries focused primarily on U.S. Government acceptance of Blackhawk, Seahawk, and Apache [helicopters]. The downturn within the commercial market was caused by the dramatic curtailment of natural resource development. At the midpoint of this decade, new aircraft deliveries into the market segments of oil, gas, minerals, coal, timber and agriculture fell to near zero. New commercial helicopter deliveries turned up in EMS, public service and corporate air taxi; but none of these segments enjoy the huge helicopter appetite of offshore oil and gas exploration and production.

Move Toward Military

Understandably, some manufacturers have moved away from the civil side of our industry in favor of military business. Unfortunately, once that decision is made it is almost irreversible, because worldwide commercial business transactions require a consistent, long-term industry posture. Such a posture can only be achieved through many years of total commercial market involvement, including consistently dependable customer service and product support; financial initiatives, which take full advantage of domestic and international economic policies; and product innovation, which applies new technology to airframe systems solely based upon practical commercial payoffs. Currently six of eight major airframe manufacturers have active commercial production programs. By 1990, this number may be as few as three.

The commercial helicopter industry will recover in the 1990's. During the 1980's, however, 13 critical issues have emerged which will have a significant effect upon how far the recovery will extend. These issues divide into two categories-- those which will either resolve themselves or become less significant through natural political dynamics and cyclical fluctuations of the world economy; and those which can only be resolved through better informed and more intelligent business management. These issues are as follows:

Category 1-
- development of a civil VTOL transportation infrastructure
- the price of oil and gas
- interest rates
- product liability and tort reform
- currency exchange rates
- tax laws and trade policies
- military spending levels

Category 2-
- operator interaction with airworthiness authorities
- priority, key personnel and funding allocation by manufacturers to commercial problems
- safety practices
- cost awareness
- pricing policies
- end-user differentiation of operators

Helicopter activity within the natural resource development market is influenced mostly by the price of oil and gas. Coal shipments, housing start-ups and agriculture prices are important, but no other segment compares with the helicopter demand of future oil and gas exploration and production development. The "trigger price" required to stimulate this demand varies between geographic regions, oil companies holding leases within these regions, and ruling governments within these regions.

The two most prolific helicopter geographic areas are the Gulf of Mexico and the North Sea, $19-26 per barrel of oil and $1.75-2.50 per thousand cubic feet of gas are the approximate trigger prices. Activity in six other geographic areas-- Africa, Southeast Asia, Australia, Mexico, South America and Alaska have different economic dynamics, but all clearly benefit from increased oil and gas prices with helicopter demand following suit.

Operations Are Global

Helicopter manufacturing and commercial operations are global in nature. Manufacturer offset programs, international supplier development and effective worldwide marketing campaigns have made commercial helicopters truly multi-national.

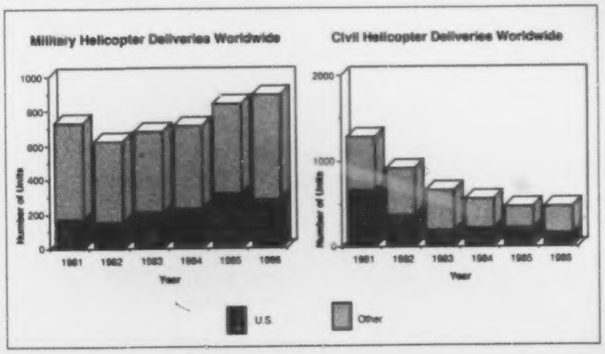
As a result, currency exchange rates now have a significant influence over product costs and resultant market pricing. The weak U.S. dollar of recent months has caused a negative cost disturbance. Market prices which were reasonably predictable up to this point were adversely upset. A U.S. dollar increase of at least 20% is necessary to resume market stability.

Interest rates drive the cost of debt capital. The momentum of the commercial helicopter industry has become more susceptible to the cost of money than other industries during this decade. This is primarily due to commercial helicopter business focusing on more debt financing than equity capital. Therefore, earnings are affected thorough the following cost elements: (1) leverage rental rates (2) finance sales (3) manufacturer's inventories which have increased due to reduced sales and have consumed retained earnings imputed interest rates, (4) working capital costs which have become a significant operating expense for highly leveraged commercial operators. Current interest rates are favorable, but if they exceed 12% problems will develop.

Tax Law Impact

Tax laws have varying effects on our industry. Helicopter business in recent years has been impacted by the investment tax credit, depletion allowance, virtual profit tax, luxury tax, windfall profit tax, accelerated depreciation, alternative minimum tax, and many, many more. Earlier in this decade, favorable tax treatment for large capital investments lead to a commercial helicopter market oversupply with attendant detrimental effects which are still with us today. Although tax laws are complicated, the most important elements address allowable depreciation schedules. Five year write-downs without incentives appear to be the best compromise for both finance and long-term tax lease transactions. In addition, trade policies must not introduce artificial tariff costs and where possible complement the tax laws between trading nations.

Liability insurance rates have increased dramatically this decade because aircraft losses have increased, pay-outs to plaintiffs have been significantly higher, and insurance company income from interest rate



sensitive financial instruments has declined. Aircraft losses are a shared responsibility between manufacturer and operator, and losses hinge upon technical surveillance, maintenance procedures, safety discipline and pilot/technician training... all of which are manageable and discussed further below.

Liability Legislation Needed

Unreasonably high cash awards to plaintiffs require federal product liability legislation and tort reform measures to reduce liability exposure. Some states have enacted laws in this regard, but more are needed and federal action is mandatory. Ironically, higher interest rates reduce insurance premium costs because of competition between insurance companies to raise cash for higher yield debt instruments.

The smattering of technology that has found its way to commercial helicopter applications has done so mostly from prior funded government programs. Fortunately, military lifecycle cost objectives have become more commercially oriented (with the exception of combat survivability) and commercial technology spin-offs are more attractive today than during the 1970's. Also, high rate production military contracts absorb a large portion of manufacturer overhead which directly benefits commercial pricing. Any significant reduction in military spending would have an adverse impact on the commercial helicopter industry. The optimum mix for a helicopter manufacturer is a combination of both government contracts and commercial business.

The widespread use of commercial helicopters in day-to-day business is heavily dependent upon a supporting infrastructure particularly in the more populated areas of the United States and Europe. This infrastructure includes heliports, supporting ground systems, discrete IFR routes and urban political support to VTOL operations. A number of helicopter industrial groups, including HAI, are working diligently at grassroots levels developing community tolerance to helicopter operations. But city, state and federal political support is badly needed. Infrastructure development must start from the top down. State and county sponsored helicopter programs will serve as the basis for future infrastructure development.

Fortunately, the six remaining critical issues are under our management control and can be solved within predictable periods of time.

Quality Assurance Paramount

Unyielding management emphasis on manufacturer quality assurance and operational safety is paramount. Safety cannot ever be compromised for commercial considerations, but the commercial impact of actions taken under the auspices of safety must be fully recognized. Thorough procedures, work force discipline systems, flight system and component health monitoring equipment, and practical pilot and technician training, all lead to a higher level of safety. Widespread public acceptance of helicopter transportation hinges upon impeccable safety records. There is no other single attribute within our business that has a more powerful influence on our future than operational safety.

The pricing dynamics within the commercial helicopter industry has been driven up recently by material and labor cost increases, rising insurance premiums, interest and currency exchange rates, and lost economies of scale due to reduced production output. Pricing is driven down by the desire of operators to restrict competition, win new contracts, and penetrate new markets.

Currently, no one is benefiting from squeezed margins with the possible exception of component service and parts distribution businesses. Manufacturers are posting large commercial losses and operators fall-out has occurred and realistic pricing policies based upon realistic costs must be implemented.

Complete Cost Awareness

But, before pricing policies can be established, complete cost awareness must be realized. For the manufacturer, this includes subtle items such as continuous technical surveillance of aircraft in service, warranty adjustments beyond warranty periods, inventory growth, aircraft marketing, supplier requalification, supplemental type certificates, product improvement campaigns, publication updates, etc.

For the operators, this includes often forgotten items such as recurrent training, premature failures, back-up aircraft, deductible portions of insurance policies, Airworthiness Directive implementation, contract indemnifications, parts expediting, inventory shrinkage, etc. An excellent pamphlet, entitled "Guide for the Presentation of Helicopter Operating Cost Estimates" (Helicopter Association International and Aerospace Industries Association of America), provides a thorough treatise on this subject.

Helicopter end-users too often select operators based upon lowest price. Ultimately, this practice leads to service level degradation, erosion of the operator's economic base or worse. End-users must become knowledgeable of all financial factors needed for satisfactory charter service and verify that the operator has adequately accounted for these costs. Operational efficiency and productivity become immediately apparent if all cost elements are addressed. Also, end-users should require quarterly financial statements from operators to verify financial strength.

Interaction Needed

Airworthiness authorities frequently become saturated with certification requirements of manufacturers. As a result, when operational Directives are issued, they are biased toward the manufacturers' viewpoint without adequate appreciation of operator consequences. Several FAA regions are particularly conscientious sampling operators to determine the operational impact of a Directive prior to issuance; but operators need to initiate such interaction, and all Airworthiness Authorities need to encourage such initiatives from operators.

As mentioned previously, the lure of lucrative military programs has redirected manufacturer resource priorities away from commercial programs. The best technical and management talents are, therefore, not available to solve commercial product problems. Such practices exhibit financial, marketing, and product liability shortsightedness. Manufacturers must assign experienced personnel to commercial programs. The benefit is not only an effective resolution of problems, but also propagation of commercial knowledge to others.

In conclusion, the commercial helicopter industry will recover in the 1990's. The critical issues noted above will dominate the recovery. Any prediction of commercial helicopter business volume in the next decade must include assumptions regarding these issues. More importantly, the management within our industry today must take the necessary business initiatives to assure industry growth through the year 2000.

Mr. Smith has twenty-five years experience in the helicopter industry. He began his aviation career in the military as a maintenance officer. After leaving the military in 1969 he held several high level marketing positions with Sikorsky Aircraft. As Vice President of Marketing for Sikorsky from 1979 to 1981, he was responsible for all Sikorsky's government, international, and commercial sales/marketing programs as well as commercial customer service. Mr. Smith left Sikorsky in 1981 to become Vice President of General Aviation for Aviall, Inc. in Dallas, Texas. There he was accountable for sales and customer support of general aviation turbine engine overhauls, engine component rental, exchange and sales programs, aircraft major modification, and fixed-base terminal services on Love Field. From 1983 to 1986 he served as Vice President of Offshore Logistics, Inc., and corporate officer and general manager of Air Logistics, the second largest helicopter operator in the United States. Mr. Smith currently serves as President and Chief Executive Officer of MBB Helicopter Corporation in West Chester, PA. He is a graduate of Dartmouth College and holds a Masters in Business Administration from the University of Bridgeport.

The Whole is the Sum of its Parts

by
Matthew S. Zuccaro
Vice President/General Manager
Damin Aviation

In recent years, the number of organizations dedicated to specific aspects of the helicopter industry has grown from roughly 20 in 1984, to 34 in 1987. These 34 organizations are now known as Helicopter Association International Affiliate Members, a category established to initiate a simple yet effective communications network among autonomous helicopter organizations. To this end, HAI scheduled a general session at the 40th Annual Meeting and Industry Exposition to address affiliate organizations. But what caused the growth of these organizations, and what does it mean for the international helicopter industry?

To address the matter of affiliate organizations we must first establish what an affiliate organization is. An HAI Affiliate Member is an organized, helicopter-related entity made up of individuals or companies dedicated to a mutually beneficial purpose. Although many of these organizations have long histories, HAI only established the Affiliate Member category recently.

Why?

The creation of an affiliate organization is either predicated on a geographic area of operation, such as the New England Helicopter Pilots Association, or on a certain type of helicopter operation, such as the Airborne Law Enforcement Association, a nationwide organization. The Affiliates are created out of a need for various operators and individuals to address common problems in a unified and effective manner.

Uniquely Qualified

Because affiliate organizations address issues unique to certain types of operation and specific geographic areas, it would be incorrect to assume that an international organization, such as HAI, could be as effective as its affiliates in dealing with those particluar issues. Conversely, it would be inappropriate to assume that an affiliate organization predicated on local issues and/or specific types of operation could be as effective as the HAI in dealing with national agencies such as the FAA or Congress with regard to national and international issues. The affiliate organization is effective because its members are able to narrow in on well defined problems, and thus produce an effective program to improve a particular operating environment. HAI is successful because it unites the various parts of the industry in one representative body, thereby providing an authoritative voice for the international civil helicopter industry.

Together We Stand...

In consideration of my past activities as one of the founding members, and a past president of the Eastern Region Helicopter Council, and as a current member of the HAI Board of Directors, I have had the distinct advantage of viewing the helicopter industry from both perspectives. It is apparent and conclusive to me that in order for the industry as a whole to be effective, whether on the local (be it a small village or a major metropolitan area) national and international levels, both the Helicopter Association International and the various affiliate organizations must work together in a unified manner.

The best method to accomplish this is to view the Helicopter Association International as the focal point or collector of information from the various affiliate organizations and their members. Subsequently, HAI redistributes this information to the Affiliate Members for their action. As problems are identified a plan of action is agreed upon taking into consideration the most beneficial avenue to pursue for local and national interests. Only through such concise and coordinated efforts will our daily activities and operating environments be improved.

It is with extreme optimism and enthusiasm that I, as Board Liaison to the Affiliate Members, look forward to my responsibilities of identifying and implementing programs for these unique organizatons. I believe a strong relationship between HAI and the Affiliate Members is a necessity for the long term success of our dynamic industry.

Any Affiliate Member wishing to discuss aspects of this interaction, should contact me at Damin Aviation, 201-863-7200.

Mr. Zuccaro is Vice President/General Manager of Damin Aviation in Weehawken, NJ. Before joining Damin, he was General Manger/Director of Operations for Resorts International Airlines, overseeing carrier and charter operations in the New York metropolitan area and Northeast corridor. From 1980 to 1984 Mr. Zuccaro was with Union Carbide, serving two of those years as Chief Pilot. Prior to that assignment he was Senior Pilot and Supervisor of Heliports for the Port Authority of New York and New Jersey. Mr. Zuccaro is Chairman of the Eastern Regional Helicopter Council's (ERHC) Public Relations Committee and of HAI's Helicopter Airlines and Legislative Advisory Committees. He is also a past president of the ERHC.

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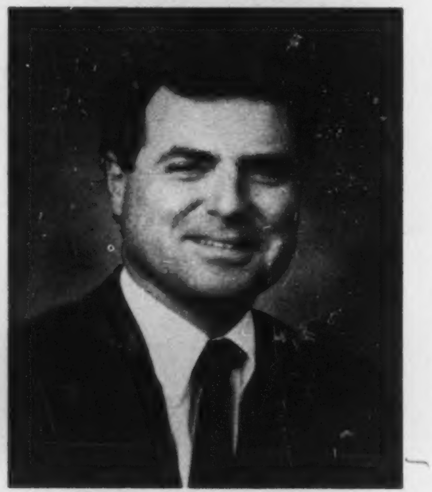
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The Offshore Oil Industry Today: What It Means for the Helicopter Industry

by
John Walter, Ph.D
Radar Guidance, Inc.

Despite the turmoil of recent years, the $40 billion free world offshore oil industry has experienced rather constant growth rates of 3-4% annually over the past 20 years. Many experts feel this long-term growth rate is a good indicator of the normal rhythm and underlying forces of the industry, and that the years 1980-1983 were but an unusual anomaly on the long growth curve of the industry. Many experts also believe the oil industry "shake out" is about over and that 1988 will see the industry return to its more normal growth path if not accelerate some over the next 20 years. Why? Because 75% of the free world's known oil and gas reserves are in the offshore, more distant from the coast and in harsher climates. Moreover, the "shake out" has returned the industry to the table of the more serious and typical players and it is now poised to get on with business as usual.

It is the purpose of this article to explore the decline in offshore drilling in recent years, and add and discuss a few oil industry helicopter service markets typically overlooked in the discussion; then present a brief offshore outlook and relate the importance of the helicopter to the offshore oil industry while analyzing prospects and problems of the offshore helicopter service.

The Offshore Industry 1984-1987

Two successive events can be given credit for having touched off the aforementioned anomaly on the long-term growth curve of the industry: 1) the Iranian Revolution, 1978-80, which saw the world price of oil go from $13.00/barrel to $31.00; and 2) the outbreak of the Iran-Iraq war, 1980-1982, when oil peaked at $41.00/barrel and thereafter settled at $34.00. This almost tripling in the price of oil lead everyone in the oil industry to believe the Promised Land had been forever reached. Because of this view, many oil companies, oil field service companies and offshore helicopter service companies made large capital outlays which resulted in more than doubling their capacity. For example, by 1981 there were 4,000 active onshore drilling rigs running in the U.S.; before that time, 800-1,200 active rigs was the norm. November of 1981 marked the beginning of a long severe decline in this data series from 4,500 active rigs to 964 rigs in 1986.

New Market Forces

By 1983-84 a new set of market forces was beginning to play against the $34/barrel of oil with resulting pressures pushing prices down to $28.90/barrel in 1984 to $27.00/barrel in 1985. By late 1985 market forces had considerably weakened the Organization of Petroleum Exporting Countries (OPEC) cohesiveness and oil prices plummeted to 1986 lows around $10/barrel on some days, resulting in an average price of $13.94 for the year-- an almost triple price decline within a year's time.

As can be seen in Table 1, the U.S. onshore active rig count was directly affected by the rapid fall in price. What is interesting to note, and understand, is that the international onshore and offshore active rig count, however, continued to expand through 1985 (the international onshore rig count is included here because many of these rigs are located in Third World countries where there is no road infrastructure and they are serviced by helicopters), beginning their declines approximately five years after the beginning of the decline in the U.S. onshore active rig count. Why?

It is important to understand that the offshore oil industry, as well as the onshore international drilling activity, are driven by economic decisions which are different than the domestic onshore drilling industry. It is these different economic decisions, or forces, that give the offshore and international onshore oil industry much more stability than the domestic drilling industry. For example, the oil companies involved in offshore or international onshore drilling activity are typically the larger ones capable of paying large sums of money to governments (U.S. and foreign) for the right to drill on offered tracts. These fees can run in the hundreds of millions of dollars and once they are paid, drilling must proceed on a contract scheduled basis, i.e., "x" number of wells to be drilled within a five- or ten-year period. If the schedule is not kept, the tract reverts back to the respective government with no refunding of the paid fees. Therefore, there is a tremendous incentive to maintain the stated drilling schedule despite what may be occurring with the price of oil in the U.S. and the U.S. onshore drilling industry.

Five Year Horizon

Moreover, these two industries, offshore and international onshore, have drilling budgets that are formulated by the larger oil companies both differently and separately from the U.S. onshore drilling budgets. They typically have a five-year, or longer, budget planning horizon, meaning wells drilled in 1987 may well have had the money to do so earmarked in 1982. These facts make the offshore and international onshore industry relatively immune to serious drilling cycles and present a relatively good growth market which has and will continue to grow in importance and size.

The other piece of information in Table 1 important to the helicopter service industry is the U.S. and international offshore production platforms. When an active rig strikes oil or gas of commercial quantities the rig is moved and a production platform is usually built from which to produce and service that well. Many of these platforms are serviced by helicopters. In 1985 about half of these platforms were located in the U.S. Gulf of Mexico. Since that time, this concentration has been shifting away from the Gulf and to other areas of the world such as Latin America, Asia, and the North Sea. As long as active rigs are turning the bit this data series will increase and has done so historically at annual rates above 3-4%.

Table 1 shows that while the international onshore and U.S. and international offshore rig count declined by 234 from 1984 to 1987, production platforms increased by 468; or potential locations to be serviced by the helicopter increased by 134 over the period. However, as the majority of oil industry helicopter service companies carried out the same unconstrained capacity expansion, as did the majority of oil companies from 1979-1983, they suffered financially from the market construction of active rigs and many went into bankruptcy; others wrote the oil industry off as an unattractive place to do business. Currently, many experts feel the offshore helicopter oil industry service business is now down to the usual and more serious long-term players and is beginning to experience renewed profitability.

Of interest during the period of oil price decline shown in Table 1, there were a number of drilling "hot spots"-- countries in which drilling activity exhibited a contra-cycle behavior. Countries such as Brazil saw an increase of active offshore rigs from 25 to 28 from 1984 to 1987; India's offshore rigs increased from 17 to 23 during the period with onshore active rigs zooming from 40 to 90; Mexico's offshore rigs increased from 30 to 31; Norway's from 10 to 11; and Turkey's onshore rigs increased from 24 to 28. Other countries in which drilling activity remained stable, without decline, over the period include Italy, Malaysia, New Zealand, Nigeria, Peru, South Africa, Venezuela and Yugoslavia. The offshore U.S. Gulf of Mexico registered a decline of 38% in drilling activity from 1985 to 1986 alone.

Industry Overreacted

In summary, unusual oil and gas market events created a tripling rise and then decline in oil prices between 1979 and 1986, causing an anomaly on the otherwise stable and attractive growth curve of the offshore oil industry. The industry, in general, overreacted to this cycle by doubling and tripling capacity; when the inevitable decline to more normal levels of drilling activity came, many oil field service companies, including offshore helicopter companies, could no longer profitably function in that environment because their overheads (due to overexpansion of capacity) no longer fit the economic realties of the more normal market. An important aspect involved in the over expansion of capacity by the offshore helicopter industry is that it often does not understand the oil industry well and, therefore, is often left in a reactive rather than "proactive" mode; the same can be said about the oil industry's understanding of the offshore helicopter industry.

The Offshore Outlook 1988-1992

With the oil and gas industry and the offshore helicopter service industry now adjusting back to a more normal long-term growth curve, it is timely to conjecture what might lie ahead for the helicopter business. Table 2 contains a five-year outlook for the U.S. and international offshore drilling activity, U.S. and international offshore production platforms and the international onshore rig count as all these data series contain potential "locations" to be serviced by the helicopter. This forecast is based upon the price of oil remaining in the $17-22/ barrel range for the time period 1988-1990 and then advancing to $22-25/barrel range from 1991-1992.

Under the assumed oil price scenario, U.S. and international offshore drilling rigs should increase by 56 over the next five years; U.S. and international production platforms by 561; international onshore rigs should increase by 1098. Thus 729 potential locations to be serviced by the helicopter stand to be added to the market. However, keep in mind that only about 50% of the international onshore rigs may require helicopter service and not necessarily all the production platforms will. Thus the net location growth may be more on the order of 600-625. One thing is certain, however, growth in the U.S. and international offshore, as well as international onshore drilling activity, will take place as that's where the majority of known oil and gas reserves are. The drilling sites will move further from the shoreline in the offshore and to even more remote sites in the onshore because that is where future reserves lie. To put it simply, we have already drilled the easy stuff.

Drilling Activity

Where might this future drilling activity growth occur? Currently total offshore production is in the 15 million bbl/day range which is about 27% of total daily world supply. Because the funding rate worldwide in general is experiencing a major oil and gas production decline, odds favor an offshore drilling expansion into new frontiers beginning in the 1988-1989 time frame.

A recent report by Salomon Brothers indicated two important supporting factors for this argument: 1) independent oil and gas operators are basing their drilling spending plans on an average oil price of $14.96; majors are doing so at $15.07; and 2) the majority of companies that explore offshore are putting more of their resources there because of better drilling economics, good natural gas prospects, better geology, larger potential fields and tax advantages. Lease expirations also play an important role. For example, nearly 2,000 undrilled leases in the Gulf of Mexico will be expiring before 1989.

Based on information of this nature, drilling economics point to the fact that future offshore drilling "hot spots" will be in areas like Brazil (where nearly 100% of available rigs are working), the Tierra del Fuego area of Argentina, the Gulf of Mexico, Mexico, Norway, Angola, Gabon, Mozambique, Egypt, Nigeria, California, Alaska, India, Australia (Temor Sea), and the Beaufort Sea. Onshore areas to watch would include Peru, Venezuela, Syria, and Colombia.

In summary, the prospects for a more normal growth trend in the offshore oil and gas business look excellent over the next five years. Offshore helicopter operators who have made the proper business decisions concerning prior excess capacity should find their operations returning to profitability. Those operators having the capability to take advantage of the projected "drilling hot spots" should do well.

The Helicopter's Importance to the Offshore: Prospects, Problems, and Solutions

Over the years, the helicopter has become the very lifeblood of the offshore oil industry. The offshore rig relies on the helicopter for crew changes, supplies, mail, food, entertainment, and other assorted needs. Depending on one's data source the number of helicopters working the worldwide offshore are between about 2,000 to 3,100 with the largest percentage of them being outside the U.S. The difference in the data may be because some data sources include helicopters servicing both the offshore and the onshore remote drilling sites in Third World countries. The majority of these offshore helicopters are medium and large sized.

Typically, the helicopter will make one trip to the rig or production platform a day; in many cases two trips need to be made. Trips are scheduled in order to coordinate with activities scheduled at each rig such as crew changes or tripping to change the drill bit. There are emergency, unscheduled trips made in the case of illness and/or to take a particular part or expert (such as a geological expert) out to the rig. There are also public relations and goodwill trips made for the press or influential stockholders. The helicopter operator is typically under a fixed fee contract to the oil company or drilling contractor.

Offshore Growth Excellent

The prospects for growth in the offshore helicopter industry are excellent as indicated by the forecast shown in Table 2. With the exception of recent years the offshore oil and gas industry have presented a stable and profitable market and will do so in the future. If several helicopter operational problems could be overcome, this market would be even more profitable. These problems include low visibility weather operations and accidents.

On a worldwide average basis, about 9% of all offshore helicopter missions are cancelled due to low visibility weather resulting in an annual loss to the offshore oil industry of about $250 million. The cost of a weather related scrapped mission will vary from region to region in the world's offshore, ranging from as low as $40,000 in the Gulf of Mexico to well over $100,000 in the North Sea and Alaska. These costs do not accrue to the helicopter operator because he is under contract; it costs either the drilling contractor or oil company in crew wages and salaries, downtime, and a number of rig operational inefficiencies. Therefore, the relative ability of a helicopter company to operate in low visibility weather is a real competitive factor.

Fog Culprit

Fog is the worst culprit of scrapped missions in the offshore (38%) followed by low clouds (25%), snow (16%), rain (15%), and other (6%) such as wind. About 50% of the time when helicopter operations are socked in by low visibility, a service vessel or supply boat can make the trip... but this is not the preferred way. Why? Vessels are more expensive and time consuming. For example, in the Gulf of Mexico the cost of a 120-mile round trip (240 miles) by medium sized helicopter is about $5,500 and requires 3-4 hours, depending on the wait at the rig and weather conditions. The same trip by vessel costs about $22,000 and depending on seas and weather, may require as much as 16 to 20 hours. Moreover, industry studies show that crews moved by vessel have lower productivity rates and higher accident rates than those moved by helicopter.

Another problem area for helicopters in the offshore are accidents associated with low visibility weather and/or loss of visual references. Insurance industry experts estimate that, on average, 120-150 helicopter accidents occur per year in the offshore resulting in losses of approximately $830 million. These losses are attributed to loss of property (helicopters) and legal costs associated with loss of lives and attendant legal costs. Many of these accidents go unreported because of their potential impact on already high insurance costs. Safety has been, and will continue to be, a burning issue in the offshore drilling industry.

Informed helicopter industry personnel have indicated that a landing system which would give the offshore helicopter Category II equivalent landing capabilities (1200′ visibility) could reduce weather scrapped missions by as much as 75% and accidents by as much as 90%.

Four Market Studies

Four market studies of the helicopter industry (which included offshore helicopter operators) performed during the 1980's indicated an overwhelming need for at least Category II equivalent landing system for helicopters. These studies include: (1) Aerospatiale Helicopter Division, 1982; (2) NASA/FAA Contract NAS2-10743), 1982; (3) Helicopter Association International, 1983; and (4) Radar Guidance, Inc., 1984. The studies also indicated a strong willingness to pay for such a capability; on the order of 8% of the value of the helicopter. The studies also indicated a Category II equivalent landing system could increase the productivity of the helicopter by 8%.

If Category II equivalent landing system for helicopters could offer the above described benefits, what are the potential solutions for the landing guidance problems encountered by the offshore helicopter? A review of the currently available landing systems technology is instructive in that the older and existing technologies offer little in the way of solutions. It is as if the solutions cannot be achieved from our current technology base.

Needless to say, the question of enhancing the helicopter's ability to operate in low visibility has generated numerous ideas and approaches because even marginal improvements mean more operating revenues. Many of these technologies have been aimed at enhancing the visibility of the rig by utilizing a variety of sensors such as FLIR and others have dealt with lighting schemes. Several technologies aimed at improving rig visibility have proven to interfere with TV reception at the rig and therefore they were simply unplugged. The general rule is a solution cannot interfere with TV reception or it will be unplugged. Entertainment has a high priority in the otherwise dull life of the offshore rig inhabitant. Other of the technologies have been valued at $50-60,000 a square foot and there is real reluctance to give up such space without good cause.

The problems and potential solutions for the helicopter operator were the subject of a special SAE Conference session in Anaheim, CA in 1982. The problems were well defined and the solutions speculated upon. One key problem defined then but never resolved was the lack of communication and understanding between the helicopter operators, their customers, and the FAA. This solution unfortunately still exists today and is in fact an umbrella problem over both the problems and potential solutions defined in this special session.

Landing Guidance Technology

There are new, small, portable, precision, low visibility landing guidance technologies now being developed that can resolve many of the problems of the helicopter operator. They will give the helicopter the Category II equivalent landing capability so strongly desired by the industry. These new technologies are based on scientific principles which represent a radical departure from older and existing technologies; their scientific uniqueness allows them to address most of the helicopter landing guidance problems which older and existing technologies simply cannot. (We intend to say more about this in a later article.)

However, until important players, operators, customers and the FAA coordinate, plan, and communicate effectively with each other, these new technologies-- or any technology, for that part -- run the risk of imperfect application, under utilization and lack of general industry acceptance.

The offshore drilling industry has been a good growth market and a profitable one for the offshore helicopter with the exception of recent years which can be viewed as an anomaly on the long curve due to the confluence of several unusual events. Projections are for a return to normal expansion and profitability in the offshore market over the next five years for both the oil industry and the offshore helicopter industry.

Helicopter Lifeblood

The helicopter has become the very lifeblood of the offshore drilling industry but is in need of solving several major problems such as low visibility operations and accidents. Losses associated with these two problems approximate $1 billion a year for the offshore industry.

Current technologies have not given the helicopter operator the desired Category II equivalent landing guidance capability, nor the necessary landing information he or she wishes. This is largely due to the fact that current technologies are being developed which will address most of the problems of the offshore operators and give them a low cost precision Category II equivalent landing system.

Plans and Programs

The offshore oil and gas industry players and regulating bodies are in real need of a meeting of the minds on what plans and programs need to be jointly developed between them to address the problem of the offshore and other helicopter operational areas as well. To date this has not occurred. Typically when there is new technology to be introduced into the offshore market, the oil companies look to the helicopter operators to provide safety and trip reliability; the helicopter operators look to the oil companies to pay for it; and the regulatory agencies do not understand either side well. It's a real chicken and egg situation which acts as a barrier to the introduction of newer and needed technologies. Until all interested parties join forces to produce a plan, newer technologies will continue to be slow in coming to the industry.

Dr. Walter has eighteen years experience in the international and domestic oil and gas industry. Having worked for Shell Oil and Dresser Industries for eight years, he has extensive experience in strategic planning, foreign investment planning strategy, international exploration and production, cost benefit analysis of capital expenditure projects, acquisitions and divestitures, and new product market analysis. Dr. Walter received his B.S. degree at Benedictine College in 1960 and an MBA at North Texas State University in 1962. He completed his Ph.D. in Economics at the University of Notre Dame in 1970. In between his MBA and Ph.D. he served in the U.S. Navy. He is a Fulbright Scholar and has taught economics, field research methods, and other courses at various universities in the U.S. and abroad. While at Shell, Dr. Walter was one of four designers of Shell's internationally respected Subjective Probabilities Associated with Investment Risk (SPAIR) System and was a member of the first U.S. team to ever exchange technology for long-term foreign crude oil supplies. In 1981, he joined Dresser Industries as Group Planning Manager in charge of strategic planning and project analysis. In 1984 he joined Valero Energy Corp. as Vice President of Corporate Development, a position from which he recently resigned to become the Vice President Marketing and Finance for Radar Guidance Inc. He is author of a book and has published over 45 professional articles.

The Year in Review

A year is a long time for any organization--especially for the Helicopter Association International which annually deals with myriad objectives for its diverse membership. As the following Year in Review demonstrates, the civil helicopter industry is rife with safety, political, legal, flight operations, and media issues, and the HAI staff makes the most of these opportunities to advance the interests of our members. HAI is already working on the key issues which will make the 1988 Year in Review a memorable one.

1/87 The Helicopter Association International hosted a meeting with representatives of the National Transportation Safety Board, the FAA, Bell, SCT and the U.S. Congress to review the availability of statistics for the development of significant safety data.

1/87 HAI conducted a Fly Neighborly/Safety Seminar at Windsor Locks, Ct.

1/87 The theme for HAI's 40th Annual Meeting and Industry Exposition was chosen: "Helicopters...Above All...Save Lives." This early theme selection gave the Association over one year to promote the annual meeting.

1/87 HAI petitioned the FAA for a ninety-day extension of Rotorcraft Regulatory Review No. 5 (NPRM 85-8) which amended operations and maintenance requirements pertaining to rotorcraft, and which would have increased flying hours for certain pilot ratings.

1/87 HAI announced that, in conjunction with the Metroplex Helicopter Association, it would hold the First Annual Helicopter Fly-in March 1 immediately following HAI's 39th Annual Meeting.

2/87 HAI held its 39th Annual Meeting and Industry Exposition Feb. 26-28, 1987 in Dallas, Texas. This meeting, which attracted 8797 attendees, was an historic one because it was HAI's first exposition in Dallas and because HAI's Safety Committee sponsored the first annual EMS Safety Seminar. A record fifty-six helicopters were on display at the 39th Annual Meeting. Jim Wright (D-TX), Speaker of the House of Representatives, was keynote speaker at HAI's 26th Annual Awards banquet.

2/87 Three directors, an insurance advisor and an airframe representative were elected to the HAI Board of Directors. Robert D. Fox, Evergreen Helicopters, Inc., Captain Frank S. Root, Arizona Department of Safety and Matthew S. Zuccaro, Resorts International, were elected directors. Lawrence Mattiello, Alpha Aviation Insurance, Inc. was elected insurance advisor while Enrico Striano, Agusta Aviation Corporation, was elected airframe representative.

2/87 HAI met with FAA officials to review the first chapter of the proposed FAA Heliport Design Guide. HAI has led the industry's efforts to work with the FAA towards a mutually acceptable document.

2/87 HAI hosted a meeting of the Executive Committee of the Mid-Atlantic Helicopter Association. HAI was represented at the FAA Annual Aviation Forecast, the Legal Council of the American Society of Association Executives and at the Annual Meeting of the Small Business Legislative Council.

3/87 HAI held the first annual Fly-In, in conjunction with the Metroplex Helicopter Association, and it drew a crowd of 10,000 local residents, and more than 40 helicopters!

3/87 The Fifth Annual Rotorcraft Roundtable, held March 1 immediately following HAI's 39th Annual Meeting and Industry Exposition, attracted representatives of 23 helicopter organizations. "This was a spirited meeting clearly showing the energy within the Roundtable's constituency," said HAI President Frank L. Jensen, Jr.

3/87 HAI was represented at many events during March. A sampling: the monthly meeting of the Small Business Legislative Council Board of Directors; FAA's Regulatory Review meeting; the Pennsylvania DOT State Heliport Plan Advisory Committee meeting; the Eastern Region Helicopter Council meeting; the Pennsylvania State Airport Symposium; the Washington Foreign Law Society meeting; the Mid-Atlantic Helicopter Association meeting; and numerous meetings with members of Congress and their staffs.

3/87 HAI announced its intent to establish a hull and liability insurance program designed specifically for small operators of single-engine helicopters with a capacity of seven or fewer.

3/87 HAI announced its support for the FAA's Special Federal Aviation Regulation for the establishment of highly restrictive flight rules for general and commercial aviation over Grand Canyon National Park. HAI President Frank L. Jensen, Jr. said, "The SFAR is a sensible compromise to the debate over aviation in the Grand Canyon. It considers the interests of the 300,000 to 400,000 yearly visitors who enjoy the Canyon experience via an air tour."

4/87 HAI participated in an FAA Regional Safety/Fly Neighborly seminar at Dulles Airport attended by approximately 200 persons.

4/87 HAI met with Baltimore, MD city officials to develop strategies to achieve public support for a downtown heliport.

4/87 HAI representatives attended a meeting of the Air Traffic Advisory Procedures Advisory Committee to discuss Terminal Control Area and Airport Radar Service Area procedures.

4/87 HAI met with the producer of ABC-TV's 20/20 special presentation on EMS operations which resulted in a better understanding of the role of helicopters in emergency medical services by this major television network.

5/87 HAI's Executive Committee met in St. Louis with its usual full agenda of member-related activities.

5/87 Chairman Wanda L. Rogers and President Frank L. Jensen, Jr. attended the semi-annual General Aviation Advisory Council meeting during which they met with FAA Administrator Engen.

5/87 HAI's Executive Committee and President Jensen visited HAI members in the St. Louis area.

5/87 HAI and ALEA signed a "Memorandum of Understanding" recognizing the importance of aviation in both the private and public sectors.

5/87 HAI representatives including Stephen R. Sullivan, Aris Helicopters, Ltd.,and Duane Moore, Illinois Department of Transportation, along with several operator members, attended a special meeting on the FAA Heliport Development Guide with FAA Associate Administrator for Airports Robert L. Donahue.

5/87 HAI President Frank L. Jensen, Jr. was interviewed by Andrew Schneider, Scripps-Howard newspapers, regarding the role of the helicopter in EMS operations.

5/87 Vincent Colicci, Helicopter Services, becomes the first member to receive a pewter model by recruiting a new Regular Member as part of HAI's Operation H.O.S.T.--Helicopter Operators Stronger Together.

6/87 The HAI Board of Directors met in Alexandria, VA and completed a heavy agenda. Important actions included: approval of the operating budget for 1987/88. (HAI has continued to remain well within the budgets approved by the Board during the past five years); and approval of a reduction in dues for one-ship operators.

6/87 HAI's EMS Committee submitted an excellent "EMS Recommended Guidelines" which was approved by the HAI Board of Directors.

6/87 HAI's communications department produced the first four-color edition of the Rotor News which highlighted HAI's 39th Annual Meeting.

6/87 General Counsel Parker participated in the defense of helicopter pilot ENG exemptions to Part 135 in a session of the American Bar Association.

6/87 HAI is represented at the Paris Air Show by Chairman Rogers, President Jensen and HAI's marketing team. Vice Chairman Sullivan, traveling on personal business, also devoted time and energy to HAI's interests at the show.

7/87 Statistics released by HAI's Safety Department indicate that 56%--an all-time high--of Regular Members of HAI applied for HAI's Operator Safety Award.

7/87 HAI produced a bumper sticker carrying the message of the 40th Annual Meeting and Industry Exposition--"Helicopters... Above All...Save Lives." Industry response is very strong and two reprints are required!

7/87 Robert C. Kerner is named National Director of the Helicopter Foundation International. President Jensen stated, "Mr. Kerner has the expertise necessary to further develop the HFI into a viable, self-supporting organization."

7/87 HAI published and distributed its "EMS Recommended Guidelines"--a four-page document containing thirteen voluntary procedures designed to increase safety in EMS operations.

7/87 HAI's Executive Committee met in New York City for a full agenda business meeting; committee members also attended a reception held by the Eastern Region Helicopter Council, and visited members throughout the area.

8/87 President Jensen was an invited speaker at FAA Administrator McArtor's meeting in Kansas City for aviation leaders. In his speech Jensen strongly supported the concept of recurrent pilot training, but objected to the FAA's uneven enrollment practices, which he said sometimes border on harassment. Jensen was pictured, along with other aviation leaders, on the front page of the New York Times.

8/87 Thirteen Regular Member single-ship Operators agreed to apply their dues reduction refund as a contribution to the Helicopter Foundation International.

8/87 HAI participated in the third annual FAA Research, Engineering & Development Conference expressing the need for VFR/Low altitude systems improvements in the National Airspace System Plan.

8/87 HAI met with the FAA to work out a proposal for a single-engine helicopter Minimum Equipment List.

8/87 President Jensen gave a presentation at the "Zero/Zero" conference in which he described the civil helicopter industry as having "extremely little interest" regarding a true "zero/zero" capability. He said the priority should be developing a nationwide system of VFR heliports.

9/87 HAI jointly sponsored the AHS National Specialists Meeting along with AHS and the FAA. More than 160 persons from throughout the industry attended. President Jensen moderated one session and participated in the concluding panel. Chairman Sullivan, Vice Chairman Albert and past CEO's Robert Suggs and Charles Johnson were among the operators present.

9/87 The financial audit of HAI by an independent firm was conducted with very favorable comments.

9/87 The 1987 Helicopter Annual was selected by the American Society of Association Executives for a Certificate of Merit Gold Circle Award.

9/87 HAI filed an amicus brief opposing the FAA's action on TCA's in Los Angeles. President Jensen said, "The FAA requirement, causing thousands of airspace users to suddenly abandon familiar routes and procedures, is an extreme action likely to create more severe problems than it might solve."

9/87 HAI published the Aeronautical Decision-Making Manual for Helicopter Pilots. The 135-page manual, resulting from an FAA study, was an immediate success and highly in demand.

10/87 HAI's Board of Directors met and approved: a new HAI Product Liability Insurance Program; a contract to automate the MMIR function; and the creation of a new committee to work on the economics of operations.

10/87 HAI had a booth at NBAA's annual meeting held in New Orleans. Many key industry contacts were maintained and many new ones made by staff member attendees. A number of HAI's elected leaders were also present.

10/87 Rob Mack of McDonnell Douglas Helicopter Co., was elected chairman of the HAI Public Relations Advisory Council. Lynda Kate of MBB Helicopter Corp. was elected vice chairman of the PRAC.

10/87 HAI attended the annual FAA CFI/Maintenance Technician of the Year award ceremonies.

10/87 HAI made a major shift in staff responsibility when Glenn Leister was named Director of Safety and Flight Operations following the departure of five-year HAI veteran Kenneth Woolnough.

10/87 General Counsel Steffanie Parker was named to serve on the American Arbitration Association's Panel of Arbitrators.

10/87 HAI hosted an important meeting to discuss the much-publicized problem of complaints about helicopter tour operators in Hawaii. Representatives of the FAA, Bell Helicopter Textron and McDonnell Douglas met in a half-day session at HAI headquarters to iron out a solution. A "fact-finding" team including President Jensen scheduled a trip to Hawaii in November.

10/87 HAI was well represented at the 1987 conference of the Transportation Research Board. Chairman Sullivan, Vice Chairman Albert, Assistant Treasurer Zuccaro and President Jensen were all speakers. HAI Past President Robert L. Suggs, chairman of PHI, was among the many distinguished participants.

11/87 HAI was represented at a number of meetings during November including: the Small Business Legislative Council's Board meeting; the NARE Heliports working group; the annual meetings of the Eastern Region and Mid Atlantic Helicopter Associations; and an NTSB hearing on Emergency Medical Services.

11/87 HAI Chairman Steve Sullivan was a panelist at the annual meeting of the Radio Technical Commission for Aeronautics. The panel was chaired by former FAA Administrator J. Lynn Helms.

11/87 The HAI-sponsored fact-finding tour of Hawaii resulted in both one-on-one meetings and some twenty meetings involving either operators, citizens' groups or a combination of each. One preliminary and noticeable finding was that the vast preponderance of operators are cooperating and flying professionally and neighborly. One major accomplishment of the mission was the bringing together, for the first time, of civil and military operators in Hawaii. The Hawaii Helicopter Operators Association was most helpful.

11/87 HAI's Steffanie Parker represented helicopter interests before the Ninth Circuit Court of Appeals in a suit against the Federal Aviation Administration. The suit challenged the FAA's emergency authority used in issuing a SFAR that severely limits access by general aviation to airspace over Los Angeles Airport.

11/87 HAI, working with Georgia Institute of Technology, developed a new heliport Noise and Land Use Planning Course Feb. 4-6, 1988 designed to provide information on how to develop and implement heliport land use plans. HAI also re-structured its Maintenance Management and Administration Course to be held prior to the 40th Annual Meeting.

11/87 HAI named Ronald C. Bunch Director of Heliports and Technical Programs. Bunch, a former helicopter pilot, has extensive flight operations experience in the United States and Europe.

12/87 President Jensen chaired the Small Business Research and Education Council's seminar on "Government Contracts: Solving the Problems After the Contract Has Been Awarded." This event attracted attendees from small business interests from throughout the nation.

12/87 HAI's Executive Committee met at HAI Headquarters. The Executive Committee discussed HAI's 40th Annual Meeting, public relations, year-round marketing efforts, the Helicopter Hotline, membership recruitment, exhibit sales, the awards program and the helicopter annual.

12/87 HAI and Air Track Data Draft conducted a joint survey of all new helicopter buyers in an effort to determine what factors influence purchase decisions.

12/87 HAI Chairman Steve Sullivan was a head table guest at the Wright Memorial Banquet where the special guest was Lee Iacocca.

For HAI's membership, 1987 was a very good year!

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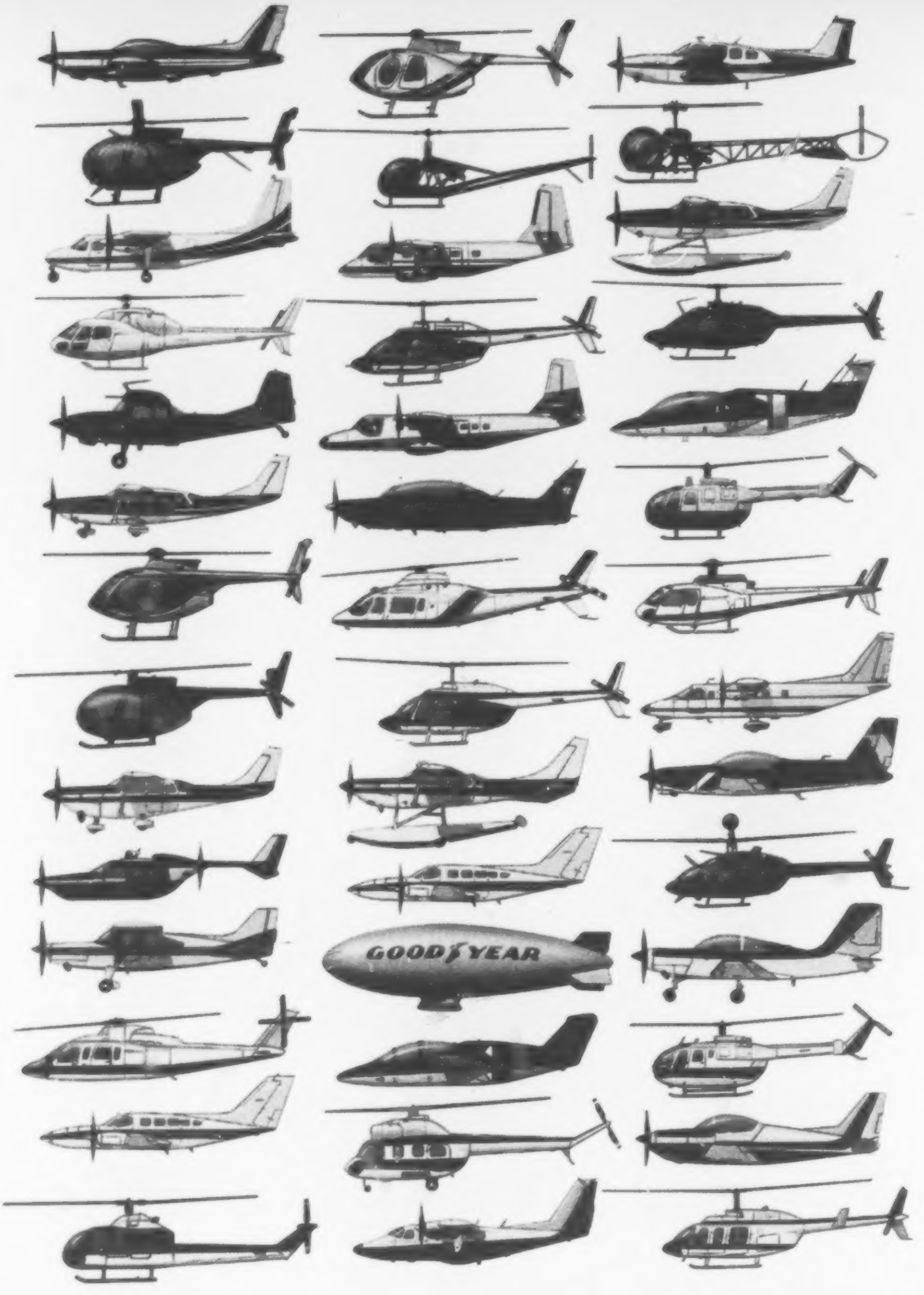

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Chairman's Message

Mr. Sullivan has been a member of the HAI Board of Directors since 1983. Before becoming Chairman of HAI, he served as Vice Chairman and Treasurer. He began his aviation career in the US Army where he served as helicopter pilot and flight instructor from 1966 to 1970, and received the Silver Star for service in Viet Nam. He and his wife, Nancy, started Aris Helicopters, Ltd. in 1972. Mr. Sullivan has over 9,200 plus flight hours as pilot in command and has given 4,400 hours of flight instruction. He currently serves on the Commercial Operators Committee, and is Board Liaison for the Heliport Promotion and Development and Technical Planning Committees. Outside of HAI Mr. Sullivan is a member of the Board of the Aero Club of Northern California, a Charter Member of the San Jose State University Aeronautics Department Advisory Council, and Co-Chairman of the Bay Area Heliport Council.

It's time the helicopter industry started tooting its own horn about the benefits of helicopters to society. A few years ago it was estimated that over one million lives had been saved by helicopters. That figure must be well over one million by now. Think of it... How many more lives have been saved by helicopters on "routine" flights, by the offshore oil support aircraft, by public sector helicopters, by helicopters working off tuna boats or on construction sites or with logging operations? If we counted these, I suspect the figure would be closer to two million!

Part of the reason HAI chose "Helicopters... Above All... Save Lives" as the theme for the 40th Annual Meeting, is the fact that very few people realize the extent and significance of the helicopter's contribution to society.

Other Benefits

Not only do helicopters save lives, their ability to move quickly and land nearly anywhere, prevents long hours between accident injury and medical care, thus minimizing the victim's pain and suffering.

Did you know helicopters also:

- transport organ transplant teams. In the Northeast, corporate helicopters are provided regularly, and at no cost, to transport burn victims.
- carry needed medical supplies, food and water to victims of disasters.
- prevent crime which translates into savings for society.
- play a major role in fire fighting, saving lives and invaluable natural resources.

Preaching to the Choir

I could go on and on discussing what seem to be rather routine operations to helicopter crews; but I am probably preaching to the choir. We in the business do a lot of that.

Instead, we must take the offensive in telling the story, and not just once or twice, but over and over. We can't afford not to. It is essential to our livelihoods that the general public look at helicopters and think of all the good they do.

Take the Time to Communicate

We in the business need to take the time to communicate with the general public through the media. We can and should use the media to help dispel myths about the helicopter that frustrate us and work against our growth.

Often, operators think the media is "anti-helicopter" when in fact, most segments of the media use helicopters on a regular basis and are well aware of the helicopter's value. Part of the helicopter's image problem stems from the fact that as an industry made up of small independent businesses, we think we don't have the time or the expertise to deal with reporters. And even if we did have the time, is one operation's effort going to make any difference? The answer is a resounding yes!

If we don't make the effort to help enhance our own livelihoods, who else will? It doesn't take a lot of time or effort. Even the smallest effort can make a difference to your operation; but, more importantly, when these efforts are combined, they benefit the entire industry.

You Are the Resident Expert

In most cases, the local helicopter operator, whether corporate, commercial, or public service, is the resident expert. If the operator is the only one who knows it, it doesn't do much good. The operator should take the time to issue press releases and speak with reporters about what the helicopter does for the community. Toot that horn.

1. The traditional way to contact the media is with a news release. It should be brief and concise telling the who, what, where, when, and how of a story.
2. For news releases the following points are particularly important:
   a. Accuracy/Truth
   b. Importance of the story. Is it newsworthy?
   c. Objectivity
   d. Proper format
3. Create a press list for your company's news releases. Include aviation press. And don't forget your local newspaper!
4. An excellent source of help in your public relations efforts is the manufacturer of your equipment. They have literature, films, fact sheets and photographs and *expertise* from public relations professionals. *See the Directory of Associate Members for addresses and contacts.*
5. There are several associations outside of HAI that can provide you with information on specific areas of operation. *See Directory of Affiliate Members and Specialized Aviation Organizations.*
6. The FAA is also a valuable source of information. *See U.S. Civil Aviation Officials.*
7. Newsmaking stories center around your people, your equipment and facilities, and your business. Put out releases on newly hired people, awards, outstanding performances, etc.

HAI's Visibility Unlimited Booklet contains further information on news release and an overview of good public relations techniques. It can be ordered by calling HAI Headquarters at: 703-683-4646.

Taking the Initiative with Bad News

If we are unfortunate enough to have an accident or incident, we must not hide from the media or refuse to comment. They have to report the story as best they can, and if we do not furnish the facts, they will look for another source. Perhaps a less informed source. We all are aware of the distortions that can arise when reporters are forced, usually under severe time constraints, to get the story.

If we do not cooperate with the media and that results in an inaccurate portrayal of the incident, it will be our fault for not taking the initiative and providing adequate information in the first place.

Toot that Horn*

Let's all take the time to the tell the story. Helicopters are exciting, unique lifesaving machines. Every year our safety record improves. And no one should have to worry about their safety when flying in a helicopter. After all, some of our first helicopter missions, both civil and military were rescue flights.

* Remember, use the HAI logo on all your news releases.

President's Message

Frank L. Jensen, Jr., *HAI President, has been with the Association six years, first as Executive Director and now as President. A helicopter pilot since 1955, Mr. Jensen has an MS degree in Aerospace Systems Management from the University of Southern California. His aviation experience includes thirty years as an aviatator, with commercial ratings in helicopter, fixed-wing, single and multiple engine, rotorcraft and instruments, as well as certification as a parachutist.*

Mr. Jensen, a veteran of Korea and Viet Nam, retired from the Army with the rank of Colonel in 1974. In 1981, Mr. Jensen was awarded the Department of the Army's Outstanding Civilian Service Medal, and a Department of Transportation Commendation. He owns and flies a Piper Arrow IV.

"Life Begins at forty"... Anonymous

HAI is now thirty-nine years old! With a proud heritage, and a solid stable present, HAI has a future as bright and as promising as we, together, decide upon and work for.

A Look Back

Earliest days of HAI were very modest and tentative, with sixteen people representing six operators and one manufacturer attending the first meeting. I called the first president, Jim Ricklefs, then of Rick Helicopters, and asked him if today's HAI is living up to the expectations of the founders, and I will quote his reply, in part, as follows: "Frank, HAI has far exceeded our most optimistic dreams. It has grown with the industry, and continues to serve the very purposes for which it was founded, and much more."

Precocious Childhood

When HAI was three years old, there were 17 regular members (with 50 helicopters) and three honorary members...Bell, Hiller and Sikorsky. When the city of Atherton, CA held a hearing to prohibit the landing of helicopters, HAI was there to defend our rights.

I called Carl Brady, HAI's president at that time, and asked him to comment on how HAI is doing, and he was, like Jim Ricklefs, very enthusiastic about both HAI and the industry which it represents.

Energetic Youth

At seventeen years of age, HAI had 89 regular, 27 associate and 36 sustaining members. HAI's Code of Ethics was officially adopted, and published. HAI's prestigious awards were already gaining prominence within the industry. HAI's president was H. C. "Pete" Brown, of PHI. He commented that the turbine engine was first introduced into the industry during his tenure, and pointed out that this industry was built on innovative ideas and their practical applications. He sees these as essential today as they were then. He is pleased with the way HAI has developed, and the way it serves the industry.

Productive Young Adult

At age thirty, HAI had 373 regular members, 128 associate and 88 sustaining. By now, HAI had a small full-time professional staff, and was conducting Helicopter Operator Management Courses, presenting awards which were highly respected, and was concentrating on safety matters. HAI's president was Don Sides, then of Continental Helicopters. Like his predecessors who have already been quoted in this article, he is quite pleased to have been at the helm of HAI during its development and growth, and would make no changes in the way HAI is progressing.

For eleven years, ending in February 1982, when HAI was thirty-three years of age, the chief staff executive was Robert A. Richardson, now of Airclaims, Inc. With his wife, Betty, Bob contributed significantly to the growth and progress of HAI.

Into each life...

...some rain must fall. The civil helicopter industry was hit, like much of the world's commerce, by a series of economic downslides. Starting in the early 1980's, these fiscal crises were exacerbated by other significant problems, including the oil slump, rising interest rates, changing tax laws, price increases of helicopters because of product liability problems, and rapid escalations in premium rates for hull and liability insurance coverage, among other adverse forces.

HAI's elected leaders showed their mettle, and made courageous decisions when the downturn of the civil helicopter industry had its inevitable deleterious effects upon this trade association. HAI's last elected president/CEO was Charles W. Johnson, of ERA Helicopters. He directed a significant cut-back in and restructuring of HAI's staff, and a stringent austerity program.

Johnson also was the moving force behind the reorganization of HAI's top leadership positions, to more closely parallel those of counterpart aviation trade associations. In the process, he was drafted to serve as HAI's first elected chairman/CEO. This was an added burden on him, but provided the stability needed during that time of economic crisis and major restructuring.

HAI's staff was called upon to make sacrifices and to overachieve during this difficult time. The present favorable situation is evidence that the HAI staff also has strength, courage and endurance.

Clearing skies

HAI's elected leaders since Johnson's two-year administration have continued to exercise and to insist upon fiscal conservatism in the management of HAI's activities. Both immediate past-chairman Wanda L. Rogers, of Rogers Helicopters and the incumbent Chairman/CEO Stephen R. Sullivan have adhered to the now-well-established pattern of fiscal austerity. This philosophy has been well accepted by the HAI Board of Directors, and will likely remain in place indefinitely.

(continued p 236)

New growth and new strength

As a result of having to more closely manage resources, HAI has gotten into the habit of doing more with less. Some of the results are reflected in HAI's stature, at age thirty-nine:

- 391 regular members, 359 associate members, 258 sustaining members and 33 affiliate members in 42 countries.
- An owned office building, which is appreciating in value at a very rapid rate.
- An excellent computer system, including a Helicopter Hotline and an in-house electronic typesetting capability.
- A stabilized, highly productive professional staff.
- High prestige and respect for many recent accomplishments in service to the civil helicopter industry.

We all owe a debt of gratitude to HAI's past and present leaders, including elected, volunteer and staff. They have served and are serving honorably and well.

The best is yet to be...

Your crystal ball is at least as good as mine, but I will, at this writing (in October 1987), forecast some of the progress HAI will make in 1988:

- Automation of the new universal maintenance, malfunction information report (MMIR) to provide safety-related and cost data which will be extremely valuable to the industry.
- Implementation of a new HAI product liability insurance program which will provide vital coverage for manufacturers.
- Establishment of HAI's hull and liability insurance program, which has been delayed because of reinsurance costs.
- Further improvements in costs of operating helicopters, as the result of continued efforts of HAI's committees.
- Important progress with HAI's proposed "Safety Through Accurate Technical Statistics" ("STATS") program.

We can certainly accomplish these objectives, and more, but only with your help. If you are helping, please accept my thanks. If you would like to help, please accept my invitation to do so. For details on how you can assist HAI's efforts on behalf of the civil helicopter industry, please call me at 703 683-4646.

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(Front row, from left) Frederick A. Moore, Treasurer (*Okanagan Helicopters, Ltd.*); Stephen R. Sullivan, Chairman (*Aris Helicopters, Ltd.*); Vernon E. Albert, Vice Chairman (*Petroleum Helicopters, Inc.*); Frank L. Jensen, Jr., HAI President; second row: Wanda Rogers, (*Rogers Helicopters, Inc.*); Loren Doughty, Safety Advisor (*Bell Helicopter Textron, Inc.*); Joseph Mashman, Special Advisor (*Consultant*); Robert W. Mack, Public Relations Advisor (*McDonnell Douglas Helicopter Comp.*); third row: Walter B. Comeaux, Jr., MD, Special Advisor, (*Flight Surgeon*); Larry Matiello, Insurance Representative (*Alpha Aviation Insurance Agency, Inc.*); Matthew S. Zuccaro, Assistant Treasurer (*Damin Aviation Corporation*); Joseph C. Gross, (*HubExpress, Inc.*); Robert D. Fox, (*Evergreen Helicopters, Inc.*); Enrico Striano, Airframe Representative (*Agusta Aviation Corporation*). (Not pictured, Charles L. Andrus, (*Exxon Company USA*); Nicholas Blaskoski, Engine Representative (*Allison Gas Turbine, Division of General Motors Corp.*); Special Advisor, Theodore E. Dumont, (*Aero Regs International*).

1987-88 HAI Board of Directors

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* The composition of the Board of Directors is changed with each fiscal year which begins July 1st.

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1952-53 Carl F. Brady
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1956-57 Carl Agar (deceased)
1958 Richard D. Eccles
1959 J. Cullen Weadock
1960 Robert L. Suggs
1961 Hal C. Conners (deceased)
1962 Donald A. Larson
1963 J. Cullen Weadock
1964 Walter N. Attebery
1965 H.C. "Pete" Brown
1966 Robert A. Richardson
1967 Roy K. Falconer
1968 Godfrey A. Rockefeller
1969-71 Glenn W. McPherson
1972-73 J. Arlo Livingston (deceased)
1974 W.B. Rowe
1975 Frank W. Lee
1976 Menno S. Kamminga
1977 Richard A. Wien
1978 Donald L. Sides
1979 Vincent Colicci
1980 Delford Smith
1981 Carl Dougherty
1982 Gian F. Blower
1983 Loran E. Patterson
1984-85 Charles W. Johnson
1986-87 Wanda L. Rogers

The 26th HAI Annual Awards

Outstanding leaders of the civil helicopter industry were recognized at the HAI Annual Salute to Excellence Awards Ceremony, February 28, 1987, in Dallas, Texas. Cited below are descriptions of the awards and their deserving recipients.

PILOT OF THE YEAR

Established in 1960, the Pilot of the Year is the oldest of HAI's twelve Salute to Excellence Awards. The award recognizes an outstanding single feat performed by a helicopter pilot during the year, or extraordinary professionalism over a period of time. Nominees must be active civilian helicopter pilots.

Ronald I. Smith, right, Chief Pilot of ERA Helicopters, Inc., receives the Pilot of the Year Award from HAI Chairman Wanda Rogers. Smith has been flying for 29 years and has accumulated 11,000 accident-free flight hours.

CREW OF THE YEAR

HAI has presented the Crew of the Year Award since 1980 in recognition of the support and team work of the specialized helicopter crew in performing the various missions of the civil helicopter. Nominees could have worked together on a particular mission, or in a consistently outstanding manner for a period of time.

HAI's 1986 Crew of the Year Award was presented to the representatives of helicopter crews and support groups who worked together battling flood conditions in Northern California in 1986. Pictured are members of the Sonoma County Sheriff's Department: (left to right) Sheriff Dick Michaelson, Pilot Tim McConnel, and Sgt. Casey Howard. Other award recipients included Timothy Morgan, Helipad Aviation, Wanda Rogers, Vice President, Rogers Helicopters, Inc., Lt. Col. Ted Schindler and Major Terry Nelson, 129th Airborne Rescue and Recovery Group, and Jack Ryan, former Director of the Sonoma County Air Traffic Control Tower.

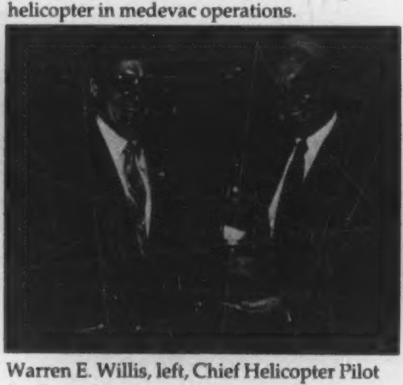
ROBERT E. TRIMBLE AWARD

The Robert E. Trimble Memorial Award honors a qualified pilot who is especially distinguished in mountain flying. The award was established in 1961 to focus attention on a pilot who has displayed exceptional ability and good judgement in high altitude flying and has provided outstanding service to others while contributing to high standards of safety, and bringing credit and recognition to the helicopter industry.

HAI Chairman Wanda Rogers and Jerry Trimble, right, son of Robert E. Trimble present the Robert E. Trimble Memorial Award to Todd McCready, center, Chief Helicopter Pilot for Yellowhead Helicopters, Ltd. and a Parks Canada rescue pilot. McCready earned the award for his rescue of four stranded mountain climbers.

MBB GOLDEN HOUR AWARD

The MBB Golden Hour Award was created in 1982 to honor an emergency medical services (EMS) helicopter pilot for providing outstanding assistance in a specific emergency situation, thereby advancing the helicopter in medevac operations.



Warren E. Willis, left, Chief Helicopter Pilot for Coastal Aviation Services, Inc., receives the MBB Golden Hour Award from MBB President David O. Smith. In addition to his ongoing record of superior safety, Willis is commended for rescuing four people stranded on a barrier island off the coast of Florida.

MAX SCHUMACHER MEMORIAL AWARD

The Max Schumacher Memorial Award was first presented in 1967 to recognize exemplary service to the helicopter industry through the advancement of the use of helicopters in urban area operations.

Richard H. Judy, Director of Miami International Airport, earned the Max Schumacher Memorial Award for his role in establishing the innovative heliport system, "Skyport," at Miami International Airport. HAI Chairman Wanda Rogers presents the award.

FLY NEIGHBORLY AWARD

Since 1982, the Fly Neighborly Award has honored commendable or significant contributions by individuals or organizations solving a critical sound complaint or problem. The Award is based on HAI's Fly Neighborly Program which stresses voluntary noise abatement and community relations. Qualified nominees will have worked closely with an individual, citizen's group or political entity.

James Holtsclaw, former Air Traffic Control Tower Manager at Los Angeles International Airport, receives HAI's Fly Neighborly Award from Sikorsky representative, Dick Stutz, for his contributions to solving sound complaints in the Los Angeles metropolitan area.

LAWRENCE D. BELL MEMORIAL

The Lawrence D. Bell Memorial Award, established in 1971, honors an individual for outstanding service to the civil helicopter industry over a period of time. Nominees need not be licensed pilots.

Jack Horner, left, President, Bell Helicopter Textron, and HAI Chairman Wanda Rogers, right, present the Helicopter Association International's prestigious Lawrence D. Bell Memorial Award to Philip Landi, Manager of Heliports and Helicopter Operations for the Port Authority of New York and New Jersey, for his long and dedicated service to the helicopter industry.

HELICOPTER MAINTENANCE

Established in 1973, the Helicopter Maintenance Award recognizes distinguished contributions to aviation safety through significant innovation in design, or longstanding excellence in the performance of helicopter maintenance.

Richard White, right, Chief of Helicopter Maintenance for the Port Authority of New York and New Jersey, receives the Helicopter Maintenance Award from HAI Chairman Wanda Rogers.

McDONNELL DOUGLAS LAW ENFORCEMENT AWARD

First presented in 1972, the McDonnell Douglas Law Enforcement Award is given for a worthy contribution to the advancement of the crime-suppression concept of helicopter patrol service. Nominees are not limited to pilots or law enforcement personnel.

Vel Varner, right, Vice President of Marketing for McDonnell Douglas Helicopter Company, and HAI Chairman Wanda Rogers, left, present the McDonnell Douglas Law Enforcement Award to Lars Erik Freeman, center, of the Swedish National Police. Freeman's helicopter unit patrols the thousands of miles of Swedish coastline, forest, mountain areas, and islands.

EXCELLENCE IN COMMUNICATIONS

Established in 1980, the Excellence in Communications Award is given to the print or broadcast journalist achieving the most creative and distinct dissemination of information about the helicopter.

Elfan ap Rees, right, publisher of Helicopter International, and an aviation journalist for 21 years, receives the Helicopter Association International's Excellence in Communications Award from HAI Chairman Wanda Rogers.

RAISE YOUR SITES! AWARD

The Raise Your Sites! Award, established in 1983, recognizes the person or organization that has done the most during the year to promote the establishment of public-use heliports.

Douglas Hare, right, President of the Vancouver Harbour Heliport Society and Chief Helicopter Pilot for McMillan Bloedel, Ltd, wins the HAI Raise Your Sites! Award for his efforts in establishing the Vancouver Harbour Heliport. HAI Chairman Wanda Rogers, center, and Sikorsky representative, Dick Stutz, left, present the award to Hare.

OUTSTANDING CERTIFIED FLIGHT INSTRUCTOR

HAI's Outstanding Certified Flight Instructor (CFI) Award was established in 1985 to recognize superlative contributions by the helicopter flight instructor in upholding the high standards of excellence for helicopter pilots.

For fifteen years of accident-free instruction, Lawrence E. Durocher, right, receives the Outstanding Certified Flight Instructor Award from HAI President Frank L. Jensen, Jr.

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HAI Committees

HAI's committees are the mainstay of HAI's efforts on behalf of the civil helicopter industry. They also serve as essential communication links between members and the Board of Directors. Committee members are experts in their field and provide quality assistance to members in all aspects of helicopter activities. HAI urges its members to participate in committee activities. Contact committee chairmen at the address listed for further information.

Acoustics

The Acoustic committee will focus its activities this year on the FAA Helicopter Noise Model (HNM), a tool for heliport developers just released by the FAA. The committee will study the output of the HNM as it compares to the FAA Advisory Circular (AC) on heliport noise assessment. (The AC includes all heliports and brings it in line with the approach used in FAR Part 150). The committee has also reviewed the FAA's proposed rulemaking to include heliports under the FAR 150 program which now covers airports.

The committee seeks additional members and operator participation to help assess economic impact on helicopter operations. The committee also provides support to the Fly Neighborly program and to the HAI Heliport committees which foster public acceptance of helicopters and heliport development.

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Charles R. Cox
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Jim Kahan
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Dr. D.S. Janaki Ram
McDonnell Douglas Helicopter Co.

Harry Sternfeld, Jr.
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Charles Yoerkie, Jr.
Sikorsky Aircraft

Agricultural

This committee tracks pertinent Appellate Court decisions and environmental actions which apply to aerial application of pesticides. Other activities include trying to obtain a new market for chemical liability drift insurance; dissemination of information on use of new pesticides and other chemicals; and discussions of any hazards that may result from the use of new chemicals that could affect the operator, his equipment, his crop or adjacent properties. The committee stresses training to avoid wire strikes and has a slide presentation which shows typical flying hazards such as obscured wires across valleys and hidden poles.

Chairman
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Aris Helicopters, Ltd.

Staff Liaison
Steffanie J. Lewis
General Counsel and
Director of Legislative Affairs

Committee

Albert P. Averill

James T. Cheatham
Verticare

William L. Knight
Rambling Rotors, Inc.

Dr. Carroll M. Voss
Ag Rotors

Commercial Operators

This committee provides recommendations to the HAI Board of Directors on any subject which is of special interest to commercial operators. It also functions as the Commercial Operators Committee of the American Helicopter Society.

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Staff Liaison
Frank L. Jensen, Jr.
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Robert Fox
Evergreen Helicopters, Inc.

Fred Moore
Okanagan Helicopters, Inc.

Wanda L. Rogers
Rogers Helicopters, Inc.

Matthew Zuccaro
Damin Aviation

Economics *

This Committee assists the HAI membership in any aspect of the economical use of helicopters, with reducing direct operating costs a priority. The committee recently published a booklet entitled, "Holding on to Revenue," to help helicopter operators make the most of their businesses.

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Senior Vice President
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Board & Staff Liaison
Frank L. Jensen, Jr.
HAI President

Committee

Vincent Colicci
Helicopter Services, Inc.

Joseph Mashman
HAI Special Advisor

* During the October 20, 1987 meeting of the HAI Board of Directors, a new committee was approved which will absorb the present Economics committee. The new committee will be chaired by Brandon Battles, Bell Helicopter Textron, and will comprise, in addition to the present committee, representatives of both the manufacturing and operating communities. One of the first actions of the committee is an aggressive program to develop the wider use of engine trend monitoring systems in helicopters. The reorganization has the full support of the present Economic committee chairman and will allow him more time to pursue his responsibility as a Director of HAI.

Emergency Medical Services

This committee includes key leaders in the helicopter EMS community. The past few years have been characterized by rapid growth of this industry which is dedicated to saving lives and to the efficient transport of the critically ill and injured.

The EMS committee is now focusing its energies on improvement in EMS operational safety. The committee recently published the HAI EMS Recommended Guidelines, a set of recommended operational guidelines for EMS helicopter operations, which were well received by the industry and the FAA, and were used by the NTSB in their recent EMS Helicopter Report. The Guidelines were produced in coordination with ASHBEAMS, NFNA, and NFPA.

This year, the committee will continue to sponsor and promote popular EMS Safety Education programs and seminars such as the 2nd HAI EMS Safety Seminar. These programs will be co-hosted by the HAI Safety Committee and will also be held at other industry meetings and events.

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Dr. Walter B. Comeaux, Jr.
Special HAI Advisor

Dr. Richard B. Donker
Memorial Hospital/Medical Center

Tom Einhorn
National EMS Pilot Association

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Court Helicopters (PTY) Ltd.

Darrell E. Lewis
Executive Air Taxi Corp.

Frederick V. Martin, Jr.
Agusta Aviation Corp.

Nina Merrill
ASHBEAMS

S. Duane Moore
Illinois Dept. of Transportation

Roy L. Morgan
Air Methods Corp.

John R. Murphy
St. Louis Helicopter Airways

Ken Norton
Aerospatiale Helicopter Corp.

Lt. Rich Oliver
Sonoma County Sheriff's Dept.

Chief Carlos Perez
Metropolitan Dade County

Dr. Thomas Poulton
Creighton University School of Medicine

Daniel Reich
St. Anthony Hospital/ASHBEAMS

William Rheams
Air Logistics

Dennis Rohlfs
Executive Air Taxi

Ronald Shackleford
Arizona Dept. of Public Safety

Robert L. Suggs
Petroleum Helicopters, Inc.

Timothy G. Wahlberg
Evergreen International Aviation

Don Wright
National EMS Pilot Association

Jayne Wynn
Care Flight

Dr. John Zuk
NASA

Flight Operations and Flight Instructors Committee

This committee has refocused its efforts to complement HAI's safety, flight operations and flight instructor programs and to strengthen HAI's commitment to safe and professional helicopter flight operations.

The committee seeks chief pilots, flight instructors, flight examiners and professionals who will actively participate in programs such as: FAA's Back to Basics, Pilot Judgment Training, Accident Prevention Counseling, Fly Neighborly Programs and Safety Seminars. The committee also reviews significant changes to FAA flight regulations and pilot/ATC/flight procedures, routes, flight publications, charts, and problems affecting helicopters. The committee seeks input from Affiliate organizations to develop a strong industry voice to respond to issues such as the Los Angeles TCA restrictions to VFR helicopter operations.

Chairman
Art Hill
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Weehawken, NJ 07087
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Board Liaison
Vernon E. Albert
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Staff Liaison
Glenn A. Leister
Director of Safety and Flight Operations

Committee

Francis J. Curnow
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John Dempsey
Bristol-Myers

P.A. (Butch) Denson, III
Bally's Grand

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Bell Helicopter Textron

Peter Lance
Columbia Helicopters

Peter McHugh
FAA International Staff Liaison

Donovan V. Mott
Aris Helicopters, Ltd.

Daniel E. Norman
University of Tennessee
Aeromedical Services

Jack Schweibold
HAI CFI Course Director
Allison Gas Turbine Div.

Tom Solat
Bristol-Myers

Robert Wehr
Aerospatiale Helicopter Corp.

Craig Wheel
E. I. Dupont Nemours and Co.

Terry Wolfe-Milner
Okanagan Helicopters, Ltd.

Dave Wright
Sikorsky Aircraft

Fly Neighborly

Reorganized this year, the Fly Neighborly committee strives to increase pilot participation in and public awareness of HAI's Fly Neighborly Program, a voluntary noise reduction program for civil and military helicopter operators. Priorities for the new committee are expected to be: 1) revise and streamline the Fly Neighborly Guide 2) coordinate Fly Neighborly activities with regional associations and with HAI Safety, Acoustics and Heliport committees and with the Public Relations Advisory Council, and 3) establish a program recognizing helicopter operators, individuals and agencies who develop the Fly Neighborly program or those whose special Fly Neighborly achievements have enhanced the helicopter's image in the community.

All Affiliate Members are invited to nominate "Fly Neighborly" representatives who are willing to actively participate in the critical task of gaining public acceptance of the helicopter.

Persons interested in joining the committee should contact the committee chairman.

Chairman
Jack Thompson
Systems Control Technology
1611 N. Kent St. Suite 905
Arlington, VA 22209
☎ 703/243-3633

Board Liaison
Matthew Zuccaro
Damin Aviation

Staff Liaison
Ronald C. Bunch
Director of Heliports and Technical Programs

Committee

Charles Cox
Bell Helicopter Textron

George Jones
Colgate-Palmolive

Dick Stutz
Consultant

Government Contracting

This committee was organized to establish a communication link between the commercial helicopter contractors and public agencies which use helicopters. The committee also looks for contract opportunities for the commercial operator in all levels of government. Members strongly support competition in government contracting and the principles expressed in the Office of Management and Budget (OMB) Circular A-76 Directive.

Last year the committee sent a letter to HAI member operators asking them to write their governor requesting that he call on helicopter operators in emergency situations rather than on the national guard. The committee also held beneficial wage and hours discussions with the U.S. Department of Labor. The committee is currently working with the Boise Interagency Fire Center to rewrite the three year National Standard Government Contract. This document is the basis for all federal contracts regarding helicopters used in fire fighting.

Chairman
Rod Kvamme
President
Heli-Jet Corp.
3830 Cross St.
Eugene, OR 97402
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Wanda L. Rogers
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Steffanie J. Lewis
General Counsel and
Director of Legislative Affairs

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Ray Franz
Idaho Helicopters, Inc.

Joseph W. Green
El Aero Services, Inc.

Daniel J. Hawkins
Hawkins & Powers Aviation, Inc.

Lloyd Heckmann
Pumpkin Air

Robin Rogers, Alternate
Rogers Helicopters, Inc.

Dean Shealy
Crescent Airways, Inc.

Steve Smith

Bill Wells
Cascade Helicopters

Government Service

Originally formed as the Public Service committee, the committee provides recommendations to the HAI Board of Directors on any subject which is of special interest to the government service community. Membership is made up of government service operator members of HAI.

Chairman
Forrest E. (Buck) Meeks
Assistant Commander,
Aviation Division
Maryland State Police
3023 Strawberry Point Rd.
Baltimore, MD 21220
☎ 301-391-0700

Staff Liaison
Frank L. Jensen, Jr.
HAI President

Helicopter Airlines

This committee works in cooperation with the Helicopter Airline Association and HAI members who are interested in the promotion and establishment of helicopter airlines. The committee meets on an ad hoc or as-needed basis.

Chairman
Matthew S. Zuccaro
General Manager/Vice President
Damin Aviation
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Weehawken, NJ 07087
☎ 201-863-7200

Board Liaison
Vernon E. Albert
Petroleum Helicopters, Inc.

Staff Liaison
Ronald C. Bunch
Director of Heliports & Technical Programs

Committee

Peter Bales
Omniflight Airways, Inc.

Robert Chavis
New York Helicopters

Martin Schnabel
New York Helicopters

HeliPAC

HeliPAC is an affiliate committee which serves the political interests of the civil helicopter industry in accordance with requirements set forth by the Federal Election Commission, with emphasis on fund-raising.

Chairman
Vincent Colicci
President
Helicopter Services, Inc.
State Airport
Warwick, RI 02886
☎ 401-739-0363

Board & Staff Liaison
Frank L. Jensen, Jr.
HAI President

Heliport Promotion and Development

This committee is one of HAI's two heliport committees which works to place greater emphasis on public heliports, and provides marketing, promotional and technical assistance to heliport proponents.

The committee will develop marketing strategies and materials to educate civic leaders. They will identify area task force leaders and support groups to promote heliports and overcome resistance to heliport operations.

Chairman
Christine L. Eberhard
CommuniQuest Marketing Communications
1020 Manhattan Beach
Manhattan, CA 90266
☎ 213-546-5713

Board Liaison
Stephen R. Sullivan
Aris Helicopters, Ltd.

Staff Liaison
Ronald C. Bunch
Director of Heliports & Technical Programs

Committee

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City of Anaheim Planning Dept.

Wylie L. Apte
White Mountain Airways

Robert O. Brewster
Hartford Helicopters, Inc.

Roger Brownlow
Fluor Flight Operations

Dale Christman
McDonnell Douglas Helicopter Co.

Michael Davenport
Pacific Lumber and Shipping Co.

James Frye
Triad American International

Tom Marlow
ERA Helicopters, Inc.

Bill McKenna
U.S. Jet Aviation, Inc.

Mackie Mott
Sikorsky Aircraft

James V. Mottley
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LTC Pete Peduzzi
FAA Airports Special Asst.,
Heliports Liaison

Dick Rea
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Ron Reber
Bell Helicopter Textron

Donald R. Segner
Aviation Consultant

Stephanie Slavin
Aviation Business Consultants

Archibald A. Smith, II
Connecticut Air Service

Dick Stutz
Sikorsky Aircraft, Ret.

L. Clark Wirthlin
McDonnell Douglas Helicopter Co.

Peter Wright, Sr.
Keystone Helicopter Corp.

Heliport Technical Planning

As one of HAI's two new heliport committees, this committee's primary functions are to develop guidance materials for members and planners, and to to work with the FAA and other agencies on heliport design criteria and related issues.

The committee includes professionals who are familiar with technical aspects of heliports, heliport applications, heliport designs, statistical and safety data, heliport upgrades, and FAA procedures.

The committee coordinates industry review of new heliport design criteria, revisions to the HAI Heliport Development Guide, and works closely with the Acoustics, Safety and Heliport Promotion and Development Committees to establish safe and efficient heliport systems to serve the public.

Chairman
Dr. John W. Leverton
Manager, Operational Development &
Environmental Projects
E. H. Industries, Inc.
1735 Jefferson Davis Highway, #805
Arlington, VA 22202
☎ 703-486-8000

Board Liaison
Stephen R. Sullivan
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Staff Liaison
Ronald C. Bunch
Director of Heliports & Technical Programs

Main Committee

Carl Brown
Air Logistics

James W. Bushee
FAA Heliport Design Division

Warren E. Drury, Jr.
Sikorsky Aircraft

Theodore Dumont
AEROREGS International

G. Roy Fox
Bell Helicopter Textron

James H. Frye
Concrete Technology Corp.

George Gray
Howard Needles Tammen &
Bergendoff

Moe Haupt
NBAA

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S. Duane Moore
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LTC Pete Peduzzi
FAA Airports Special Asst.,
Heliports Liaison

Deborah Peisen
Systems Control Technology

Lanny B. Rider
Port Authority of New York
and New Jersey

William Shaw
IBM Flight Operations

Archibald A. Smith II
Flight Services Group, Inc.

Jack Thompson
Systems Control Technology, Inc.

Jerry E. Whitman
Shell Offshore

John F. Zugschwert
American Helicopter Society

Working Group Coordinators

HAI/NASAO Heliport Directory

S. Duane Moore
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Capital Airport
Springfield, IL 62706
☎ 217-785-8516

HAI Contact List & Heliport Development Guide

Ronald C. Bunch
Director of Heliports and Technical Programs
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Heliport Safety

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Model Ordinance

Deborah Peisen
Systems Analyst
Systems Control Technology, Inc.
Air Transportation Systems Division
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FAA Heliport Design Guide

Dr. John W. Leverton
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Working Group Members

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Ricarda Bennett
Heliport Consultants

Jack H. Burke
FAA Heliports Design Branch

Charlie R. Cox
Bell Helicopter Textron

Stuart C. De Leeuw
J. Fletcher Creamer & Son, Inc.

Christine L. Eberhard
CommuniQuest Marketing

Jim Ellis
Intermountain Air College

Mike Harrison
FAA Airports

John C. Helm
Transwestern Helicopters, Inc.

Jack W. Hester
Pennsylvania Dept. of Transportation

Lewis R. Hurst
Port Authority of New York
and New Jersey

Barry J. Janyk
Vancouver Heliport Services, Inc.

Catherine Nickolaisen
New Jersey Dept. of Transportation

Bryon H. Rakoff
Edwards & Kelcey

Ron Reber
Bell Helicopter Textron, Inc.

Diana Stuart
Helisite Associates

Raymond A. Syms
Raymond A. Syms & Associates

Legal Committee

The formation of this committee began at the 39th Annual Meeting in Dallas and will be formalized at the 40th Annual Meeting in Anaheim. Composed primarily of attorneys, the committee monitors Congressional and federal agencies' activities and reviews court decisions for potential impact on the helicopter industry. The committee will provide continuing legal education for committee members and develop a legal referral system for HAI members.

In its first year, the committee officers met to complete the details of committee organization. The committee also held a luncheon meeting to discuss how operators can cope with the insurance crisis.

Special committee dues have been established ($10 for representatives of HAI members and $25 for ex officio members) The committee will begin accepting membership on or before its next meeting to be held in conjunction with the 40th Annual Meeting.

Chairman

Hyman Hillenbrand, Esquire
Kroll, Tract, Pomerantz
& Cameron
500 Fifth Ave.
New York, NY 10110
212/921-9100

Board Liaison
Charles Andrus
Exxon Comp. USA

Staff Liaison
Steffanie J. Lewis
General Counsel and
Director of Legislative Affairs

Legislative Advisory Committee

The Legislative Advisory Committee helps develop lobbying strategies to encourage legislation that is favorable to the helicopter industry.

Chairman and Board Liaison
Matthew S. Zuccaro
Vice President/General Manager
Damin Aviation
900 Lincoln Harbor Heliport
Weehawken, NJ 07087
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Staff Liaison
Steffanie J. Lewis
General Counsel and
Director of Legislative Affairs

Committee

Jack Birmingham
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Jay Bonitt
Allied Bendix

Charles Botsford
Evergreen International Aviation, Inc.

Arthur J. Burrows
Textron Lycoming

Emil V. Cianciulli
Island Helicopter

Stuart C. De Leeuw
J.F.C. Helicopter, Inc.

George Iverson
McDonnell Douglas Helicopter Co.

Vernon R. Jackson

Robert C. Kerner
Helicopter Foundation International

Phillis A. Laniak
Agusta Aviation Corporation

Jay Lavenson
Aviation Insurance Center

Bernard D. Lipsitz
Damin Aviation Corporation

Jim Lloyd

William J. McKenna, Jr.
U.S. Jet Aviation

Wes Moore
MBB Helicopter Corporation

Ed Mullins
Sikorsky Aircraft

Donna Nelson
Evergreen Helicopters, Inc.

Jane Reese
Evergreen International Aviation,Inc.

Ralph Rennie
The Purdy Corporation

John Shroeder
Sikorsky Aircraft

Paul H. Schweizer
Schweizer Aircraft Corp.

George Troutman
Bell Helicopter Textron

Henry VanGieson
Boeing Helicopter Company

Franklyn B. Weichselbaum
Damin Aviation

John Zugschwert
American Helicopter Society

Legislative Issues

The Legislative Issues committee meets once a year at the Annual Meeting to determine priority of pending Congressional legislative issues. All interested HAI members are urged to attend the meeting.

Chairman
Jane Reese
Government Affairs Consultant
Evergreen International Aviation,Inc.
1730 M Street, NW, Suite 515
Washington, D,C. 20036
☎ (202) 466-2929

Manufacturers

This committee focuses on areas of general manufacturers' interests. It provides a forum for discussion on subjects of mutual concern and makes recommendations pertaining to these subjects to HAI management.

Chairman
Nicholas J. Blaskoski
Sales Manager, Model 250 Engines
Allison Gas Turbine Div.
General Motors Corp.
P.O. Box 420, Speed Code 012
Indianapolis, IN 46206-0420
☎ 317-230-3201

Enrico Striano
President
Agusta Aviation Corporation
Norcom and Red Lion Roads
Philadelphia, PA 19154
☎ 215-245-8860

Staff Liaison
Frank L. Jensen, Jr.
HAI President

Daniel P. Warsley
Director of Member Services

Committee

Andreas (Andy) Aastad
MBB Helicopter Corp.

Lewis A. Bedilacqua
General Electric Co.

J. F. Byrnes
Agusta Aviation Corp.

C. J. Cathey
Aerospatiale Helicopter Corp.

J. N. (Tony) Clark
Pratt & Whitney Canada, Inc.

John Driver
Westland, Inc.

Ken Hamilton
Textron Lycoming

Mackie Mott
Sikorsky Aircraft

Tony Parente
Textron Lycoming

George Rahman
Enstrom Helicopter Corp.

Richard Rea
Boeing Helicopter Company

Frank D. Robinson
Robinson Helicopter Co.

George Sibert
Rolls-Royce, Inc.

Max Wiley
McDonnell Douglas Helicopter Co.

Offshore

The primary purpose of this committee is to share information on worldwide offshore activities and promote safe offshore operations. Meetings are usually held during HAI's Annual Meeting.

Chairman
D. L. (Dai) Williams
EEL, Ltd.
Div. of Westland Helicopters, Ltd.
Kings Bldg., Castle Street
East Cowes, Isle of Wight
P032-6RH
England

Staff Liaison
Glenn A. Leister
Director of Safety & Flight Operations

Committee

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Carl F. Brown
Air Logistics

H. C. Brown
Petroleum Helicopters, Inc.

John W. Brown
Atlantic Richfield Co.

F. L. Clough
Tenneco, Inc.

Joseph C. Gross
HubExpress

Carey Howard
Mobil Oil Corp.

Charles W. Johnson
ERA Helicopters, Inc.

J. C. Jones
Sealand Helicopters Ltd.

C. J. Laubuschagne
Court Helicopters (Pty) Ltd.

Herman O. Moore
Chevron U.S.A., Inc.

Will O'Brien
ERA Helicopters, Inc.

J. C. Ross
Esso Australia Ltd.

Charles Schmitt
Heli Union

Delford M. Smith
Evergreen Helicopters, Inc.

Fred Snell
Columbia Helicopters, Inc.

Jerry E. Whitman
Shell Offshore, Inc.

Public Relations Advisory Council

The Council works to improve HAI's relations with the media and the general public's understanding of the benefits of the civil helicopter to the community. Last year, the Council updated HAI's public relations guide, "Visibility Unlimited" and planned to publicize the Fly Neighborly program.

Chairman
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5000 E. McDowell Rd.
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Vice Chairman: Lynda Kate
MBB Helicopter Corporation

Staff Liaison
Daniel P. Warsley
Director, Member Services

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Louise R. Boutin
Pratt & Whitney Canada

William C. Campbell
Allison Gas Turbine

Randy Furtick
Soloy Conversions, Ltd.

Carl Harris
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Jean Ross Howard
Whirly-Girls Inc.

William McDaniel
Textron Lycoming

Susan K. Reynolds
Helicopter Association International

Robert Stangarone
Sikorsky Aircraft

Donald P. Turley, Sr.
Aerosptiale Helicopter Corp.

Ralph Wortmann
The Garrett Corp.

Regulations

The Regulations committee is charged with overseeing all Association outputs regarding aeronautical regulations and standards. Due to the broad diversity of the subject matter and the existence of expertise on certain technical subjects within other committees, the committee's work effort is divided into "Task Forces" listed below. Any association member may become active on any Task Force upon notification to the Chairman of the Regulations committee.

In 1987 the committee and HAI staff represented HAI member interests in responding to federal (mostly FAA) Notices of Proposed Rulemaking (NPRM) on 1) increased requirements for future designs of helicopters to protect helicopter occupants during a crash, 2) additional Terminal Control Area (TCA) pilot and equipment requirements, 3) future Traffic Alert and Collision Avoidance System installations, 4) Airborne Low-Altitude Windshear Equipment and Training Requirements, and 5) FCC Heliport UNICOM frequency allocation plan.

The committee also participated at an FAA public meeting on airworthiness requirements for powered lift transport category aircraft (i.e. tilt rotor, X-wing). The Airworthiness Task Force is working with the Aerospace Industries Association to develop a position on the requirements.

In a swift action, the committee and HAI staff responded critically to an FAA final rule altering the Los Angeles Terminal Control Area. (The final rule had been issued by the FAA without the benefit of an NPRM). Additionally, the committee vigorously opposed an FAA proposal that would have required a second pilot if a helicopter's engine controls were not on the collective stick. The proposal was dropped.

It is expected that 1988 will be an equally active regulatory year with continuing attention to FAA NPRM's and reevaluation of the HAI and FAA's role in the ICAO Helicopter Operations Panel (HELIOPS).

Chairman
Theodore E. Dumont
AeroRegs International
1101 Naugatuck Ave.
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☎ 203-878-1943

Board Liaison
Theodore E. Dumont

Staff Liaison
Ronald C. Bunch
Director of Heliports & Technical Programs

Airworthiness Task Force

F. Banal
Agusta S.p.A.

E. E. Cohen
McDonnell Douglas Helicopter Co.

J. F. Grass, III
Boeing Helicopter Company

A. D. Hall
Westland Helicopters

Giffen A. Marr
Bell Helicopter Textron

Dipl. Phys. H. J. Merklein
MBB Helicopter Corp.

Hubert Portet
Aerospatiale Helicopter Corp.

Frank D. Robinson
Robinson Helicopter Co.

E. L. Turner
Aerospatiale Helicopter Corp.

Robert E. Warren
Sikorsky Aircraft

Commercial Operations Task Force
(see Commercial Operators Committee)

General Operations Task Force

Acoustics Task Force
(see Acoustics Committee)

Agricultural Task Force
(see Agricultural Committee)

Flight Operations & Flight Instructors Task Force
(see Flight Operations & Flight Instructors Committee)

Heliports Technical Planning Task Force
(see Heliport Technical Planning Committee)

Safety Task Force
(see Safety Committee)

Technical Task Force
(see Technical Committee)

Safety

This committee is comprised of a cross section of the helicopter industry including representatives from agriculture, air carrier/air taxi, corporate, public service, manufacturers, insurance companies, and government. The committee consists of 12 members, 2 ex-officios and four advisors. It meets three times a year to identify safety issues in the industry and establish courses of action to solve them. A close working relationship is maintained with the FAA, regional associations and the HAI membership.

The Safety committee continually reviews the USC Safety Management Course curriculum (held at the Annual Meeting) and assists in USC course updates and course workshops. The committee also co-sponsors the popular HAI CFI Revalidation Course, held at the Annual Meeting, which is the only revalidation course tailored for helicopter pilots. The committee also conducts a Safety Directors Forum during the Annual Meeting to discuss issues important to all safety directors.

The committee continues to update and develop new safety guidelines for distribution to the HAI membership. These publications include the HAI Safety Manual, "The Helicopter Users' Guide," and safety articles for ROTOR. The Safety committee's participation in Safety Seminars throughout the country is well known and believed to be a key factor in the enhancement of safe and professional helicopter flight operations.

Chairman
Loren Doughty
Bell Helicopter Textron
P.O. Box 482
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Glenn A. Leister
Director of Safety & Flight Operations

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Dennis Bash
ERA Helicopters, Inc.

Robert Carnie
Reed Stenhouse Ltd.

James T. Cheatham
Verticare

Dr. Walter B. Comeaux, Jr.
HAI Special Advisor

Andre Gagnon
Digital Equipment Corp.

Bruce Gillaspie
Petroleum Helicopters, Inc.

Walter Lamon
CIGNA Corp.

James Lematta
Columbia Helicopters, Inc.

James M. Sanchez
Los Angeles County Fire Dept.

David Whyte
Okanagan Helicopter, Ltd.

Statistical

This committee, which is currently being formed, has two objectives: to receive statistical requirements, other than safety statistics, from various committees; and record those statistics on the HAI data base so the information can be available to subscribers of the HAI Hotline. Members should be computer knowledgeable.

Staff Liaison
Steffanie J. Lewis
General Counsel and
Director of Legislative Affairs

Technical

In 1987 the Technical committee produced and distributed the HAI's new Maintenance Malfunction/Information Report (MMIR). This report helps mechanics efficiently report all minor and major problems that they uncover. The committee also helped develop the yearly Technician Management Course at

HAI's Annual Meeting and is now establishing the HAI 5, 10, 15, and 20-Year Technician Safety Award for individuals with accident-free maintenance records. The committee also co-sponsors national programs recognizing technicians.

The committee will continue to focus on reducing direct operating costs and working with airworthiness directives. The committee actively strives to enhance the safety and reliability of helicopter operations through review and dissemination of airworthiness directives and related information.

Chairman
Robert F. Lannerd
ERA Helicopters, Inc.
Gulf Coast Division
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Board Liaison
Joseph Mashman
HAI Special Advisor

Staff Liaison
Ronald C. Bunch
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Committee

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Samuel E. Brodie
FAA, Southwest Region

Richard Eimert
Ramapo Helicopters, Inc.

Ray Etcheverry
Big Valley Aviation, Inc.

Pat Mallen
Island Helicopter Corp.

Douglas E. Matthews
Los Angeles County Fire Dept.

Ben Pessin
Technical Consultant

Randall Redlain
Tenneco

For virtually any helicopter mission, Rogers wilco

For 25 years, Californians have said, "Rogers" for helicopter service.

Services include:

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- Ambulance/medevac
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- Executive Transport
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- Fire control/support
- Forestry
- Government contracting
- Offshore
- Herding
- Photography
- Patrol
- Pollution detection
- Sightseeing
- Heli-skiing
- TV
- Etc.

Rogers Helicopters is an FAA approved repair station, and factory authorized service facility for Aerospatiale, Bell, and McDonnell Douglas. With its large and varied fleet, Rogers Helicopters can meet your needs with the helicopter best suited to the task. For more information, call or write:

Rogers Helicopters, Inc.
P.O. Box 4, 2403 Bullard
Clovis, CA 93613, 209-299-4903

Helicopter
Association
International

HAI Works for the helicopter industry.
HAI works for its members.
And HAI will work for you.

Join the Helicopter Association International and you can take advantage of its many benefits and services. As an HAI member you get:

★ **The Annual Meeting and Industry Exposition.**
The most concentrated gathering of qualified buyers anywhere.

★ **Participation in safety seminars, operator management courses, and other educational programs.**

★ **Subscription to ROTOR, Rotorgram, and The Helicopter Annual.**
Copies of important industry publications: Visibility Unlimited, Heliport Development Guide, Safety Manual, Aeronautical Decision Making for Pilots, Fly Neighborly Guide, and others.

★ **Participation in HAI Award Programs.**

★ **Access to the Helicopter Hotline.**
You get up-to-the-minute information on proposed legislation, manufacturer alerts, critical airworthiness directives, government contracts, employment opportunities, and more.

★ **Options to participate in HAI insurance programs.**

★ **A voice in Washington and state capitals.**
HAI has the attention of regulatory agencies. We provide a unified voice in opposition to restrictive helicopter legislation.

★ **An option to influence the industry by participating in HAI's twenty-two service/support technical committees.**

★ **An active part in the largest, open, continuing helicopter forum in the world.**

Find out how you can become part of this vital and growing organization. Call HAI's Membership Manager at: 703-683-4646, or write to HAI, 1619 Duke Street, Alexandria, VA 22314-3406.

HAI Member Index

This alphabetical index of HAI members is separated according to the following categories: Regular Operator, Associate, Affiliate, Sustaining and Student. All Regular Operator members have • following their company name. The page numbers in the index will lead you to the most complete company profile.

Regular Operator/Associate

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